

Search Notes

GenCore version 5.1.6
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OM protein - protein search, using sw model
Run on: July 26, 2005, 14:23:24 ; Search time 42 Seconds
(without alignments)
207.951 Million cell updates/sec

Title: US-10-659-782B-32
Perfect score: 620
Sequence: 1 MPSPGTVCSLLIGMLWLDL..... PPSSRERRSRSHQPSCLSCPEL 117
Scoring table: BLOSUM62
Gapop 10.0 , Gapext: 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters:

513545

Post-processing: Minimum DB seq length: 0
Maximum DB seq length: 200000000

Database : Issued Patents AA: *
1: /cgn2_6/pctdata/1/1aa/5A_COMB.pep: *
2: /cgn2_6/pctdata/1/1aa/5B_COMB.pep: *
3: /cgn2_6/pctdata/1/1aa/6A_COMB.pep: *
4: /cgn2_6/pctdata/1/1aa/6B_COMB.pep: *
5: /cgn2_6/pctdata/1/1aa/6C_COMB.pep: *
6: /cgn2_6/pctdata/1/1aa/backfiles1.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score % Query Match Length DB ID Description

Result No.	Score	%	Query Match	Length	DB ID	Description
1	198	31.9	117	3	US-09-046479-2	Sequence 2, Appli
2	198	31.9	117	3	US-09-822-897C-2	Sequence 2, Appli
3	198	31.9	117	4	US-09-608-810A-4	Sequence 4, Appli
4	198	31.9	117	4	US-09-404-417A-2	Sequence 2, Appli
5	198	31.9	117	4	US-09-794-987-2	Sequence 2, Appli
6	74	11.9	597	4	US-09-949-016-7800	Sequence 7800, AP
7	73.5	11.9	569	4	US-09-252-991A-27248	Sequence 27248, AP
8	71.5	11.5	201	4	US-09-902-540-13645	Sequence 13645, AP
9	71.5	11.5	643	4	US-09-252-991A-21569	Sequence 21569, AP
10	70.5	11.4	382	4	US-09-949-016-0513	Sequence 10513, AP
11	70.5	11.4	383	2	US-09-391-916A-4	Sequence 2, Appli
12	70.5	11.4	383	4	US-09-764-803B-23	Sequence 23, Appli
13	70.5	11.4	393	4	US-09-248-796A-19806	Sequence 19806, AP
14	70	11.3	18	4	US-09-404-417A-11	Sequence 11, Appli
15	69.5	11.2	835	4	US-09-949-016-7379	Sequence 7379, AP
16	68	11.0	995	5	PCT-US95-049-10-14	Sequence 14, Appli
17	67.5	10.9	168	4	US-03-252-991A-17387	Sequence 17387, AP
18	67	10.8	395	4	US-09-134-000C-4470	Sequence 4470, AP
19	67	10.8	449	2	US-08-489-66C-3	Sequence 3, Appli
20	67	10.8	449	2	US-08-911-092-3	Sequence 3, Appli
21	67	10.8	449	2	US-08-485-001B-3	Sequence 3, Appli
22	67	10.8	449	3	US-08-454-121A-3	Sequence 3, Appli
23	67	10.8	449	3	US-08-482-161B-3	Sequence 3, Appli
24	67	10.8	449	3	US-09-057-963A-2	Sequence 2, Appli
25	67	10.8	973	4	US-09-252-991A-23944	Sequence 23944, AP
26	66.5	10.7	263	2	US-08-391-916A-8	Sequence 8, Appli
27	66.5	10.7	311	2	US-08-391-916A-6	Sequence 6, Appli

ALIGNMENTS

RESULT 1
US-09-046479-2
; Sequence 2, Application US/09046479
; Patent No. 6291653
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Theresa A.
; TITLE OF INVENTION: MOTILIN HOMOLOGS
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ZymoGenetics, Inc.
; STREET: 1201 Eastlake Avenue East
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98102
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/046,479
FILING DATE:
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Sawislak, Deborah A.
REGISTRATION NUMBER: 37,438
REFERENCE/DOCKET NUMBER: 97-04
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-442-6672
TELEFAX: 206-442-6678
TELEX:
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 117 amino acids
TYPE: amino acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: Protein
FRAGMENT TYPE: Internal
US-09-046479-2

Query Match 31.9%; Score 198; DB 3; Length 117;
Best Local Similarity 88.6%; Pred. No. 3e-17; 5; Indels 0; Gaps 0;
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MPSPGTVCSILLGMLWDLAMAGSSFLSPERHQVQVRPHKAP 44
 US-08-822-897C-2
 ; Sequence 2, Application US/08822897C
 ; Patent No. 6380158
 ; GENERAL INFORMATION:
 ; APPLICANT: Sheppard, Paul O.
 ; APPLICANT: Deisher, Theresa A.
 ; TITLE OF INVENTION: MOTILIN HOMOLOGS
 ; NUMBER OF SEQUENCES: 7
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: ZymoGenetics, Inc.
 ; STREET: 1201 Eastlake Avenue East
 ; CITY: Seattle
 ; STATE: WA
 ; COUNTRY: USA
 ; ZIP: 98102
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FastSEQ for Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/822, 897C
 FILING DATE:
 CLASSIFICATION: 536
 PRIORITY APPLICATION DATA:
 ATTORNEY/AGENT INFORMATION:
 NAME: Sawisak, Deborah A.
 REGISTRATION NUMBER: 37, 438
 REFERENCE/DOCKET NUMBER: 37, 438
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 206-442-6672
 TELEFAX: 206-442-6678
 TELEX:
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 117 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 FRAGMENT TYPE: internal
 ; US-08-822-897C-2

Query Match 31.9%; Score 198; DB 3; Length 117;
 Best Local Similarity 88.6%; Pred. No. 3e-17; 5; Indels 0; Gaps 0;
 Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MPSPGTVCSILLGMLWDLAMAGSSFLSPERHQVQVRPHKAP 44
 US-09-608-810A-4
 ; Sequence 2, Application US/0940417A
 ; Patent No. 6627729
 ; GENERAL INFORMATION:
 ; APPLICANT: Sheppard, Paul O.
 ; APPLICANT: Deisher, Theresa A.
 ; TITLE OF INVENTION: TML PEPTIDES
 ; FILE REFERENCE: 93-04C1
 ; CURRENT APPLICATION NUMBER: US/09/404, 417A
 ; CURRENT FILING DATE: 1999-03-23
 ; NUMBER OF SEQ ID NOS: 13
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO 2
 ; LENGTH: 117
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-404-417A-2

Query Match 31.9%; Score 198; DB 4; Length 117;
 Best Local Similarity 88.6%; Pred. No. 3e-17; 5; Indels 0; Gaps 0;
 Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MPSPGTVCSILLGMLWDLAMAGSSFLSPERHQVQVRPHKAP 44
 US-09-794-987-2
 ; Sequence 2, Application US/09794987
 ; Patent No. 6838438
 ; GENERAL INFORMATION:
 ; APPLICANT: Sheppard, Paul O.
 ; APPLICANT: Deisher, Theresa A.
 ; TITLE OF INVENTION: MOTILIN HOMOLOGS
 ; NUMBER OF SEQUENCES: 7
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: ZymoGenetics, Inc.
 ; STREET: 1201 Eastlake Avenue East
 ; CITY: Seattle
 ; STATE: WA
 ; COUNTRY: USA
 ; ZIP: 98102
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FastSEQ for Windows Version 2.0
 ; CURRENT APPLICATION DATA:
 ; CURRENT FILING DATE: 2000-06-30

Db 257 PPRS 260

APPLICATION NUMBER: US/09/794, 987
FILING DATE: 27-Feb-2001
CLASSIFICATION: <Unknown>
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 09/046,479
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Sawislak, Deborah A.
REGISTRATION NUMBER: 37,438
REFERENCE/DOCKET NUMBER: 97-04
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-442-6672
TELEFAX: 206-442-6678
TELEX: <Unknown>

INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 117 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-794-987-2

Query Match 31.9%; Score 198; DB 4; Length 117;
Best Local Similarity 88.6%; Pred. No. 3e-17; Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 MPSPGTVCSLLGMLWLDLAMAGSSFLSPHQVRVQVRPHKAP 44
Db 1 MPSPGTVCSLLGMLWLDLAMAGSSFLSPHQVRVQVRKESKKP 44

RESULT 6
Sequence 7800, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949, 016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241, 755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237, 768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231, 498
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO: 7800
LENGTH: 597
TYPE: PRT
ORGANISM: Human
US-09-949-016-7800

RESULT 7
US-09-252-991A-27248
Sequence 27248, Application US/09252991A
Patent No. 655195
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEAR ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107195-136
CURRENT APPLICATION NUMBER: US/09/252, 991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074, 788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094, 190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO: 27248
LENGTH: 569
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-27248

Query Match 11.9%; Score 73.5; DB 4; Length 569;
Best Local Similarity 31.3%; Pred. No. 1.9; Matches 31; Conservative 31; Mismatches 9; Indels 25; Gaps 4;

QY 9 SLILGMLWLDLAMAGSSFLSPHQVRVQVRPHKAPVPAHVSQNLCDLGQRHMLAS 68
Db 434 SLLPLAMRWRAGRSRASSEF--ELGRM-----LPHQ--AAIESSLHLIAS 473

RESULT 8
US-09-902-540-13645
Sequence 13645, Application US/09902540
Patent No. 6833447
GENERAL INFORMATION:
APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Wiegand, Roger C.
TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
FILE REFERENCE: 38-10(15849)B
CURRENT APPLICATION NUMBER: US/09/902, 540
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: 60/217, 883
PRIOR FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 16825
SEQ ID NO: 13645
LENGTH: 201
TYPE: PRT
ORGANISM: Myxococcus xanthus
US-09-902-540-13645

Query Match 11.5%; Score 71.5; DB 4; Length 201;
Best Local Similarity 27.6%; Pred. No. 0.76; Matches 32; Conservative 13; Mismatches 42; Indels 29; Gaps 6;

QY 10 LLIGMLWLDLAMAGSSFLSPHQVRVQVRPHKAPVPAHVSQNLCDLGQRHLM-- 65
Db 7 VLLIGVLGL-ASSGA-----QEARPPERHSP--TPAWAHRGVLLGVSADGLVNSQ 56
212 SPTGTGCGQGPQAPGTSIWNMLLGLLGLLGLTIAQLKVNRYVRGEVPEPR 211

QY 45 H-----VVPAALPSNQLCDEBOORHLWAVFSOSTKGSQSDLTIVSGRTWGLRVLNRLF 97
Db 212 DSGGWSVLEQELP---ELC-----FSQVIREGGHAWVWAGQLOGKUVAIKP 256

QY 98 PPSS 101

RESULT 9
US-09-252-991A-21569
; Sequence 1 Application US/09252991A
; Patent No. 655195
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEAR ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196-136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR APPLICATION NUMBER: US/09/21569
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21569
; LENGTH: 643
; TYPE: PRT
; ORGANISM: *Pseudomonas aeruginosa*
; US-09-252-991A-21569

Query Match 11.5%; Score 71.5; DB 4; Length 643;
Best local Similarity 25.7%; Pred. No. 4;
Matches 37; Conservative 17; Mismatches 47; Indels 43; Gaps 8;
Qy 2 PSPGCV--CSMILGML-----WLDLAMAGSSFLSPEHORVQVRPHKAPIV 46
Db 389 PSAGQNWCSQVQISGRSSARPNRLAEFWA-LTRPGASSM-PGNSRISVAPWRMA--- 443
Qy 47 VPALPISNOICDLEQQRHLW---ASVFQSOKSGSDLTIVS---GRTWGLRVINRUFF 98
Db 444 -----CSRGAATRWFPSRMPAWSRSRSTTPAGSTGIIQVGSRRSKGLRTGMAAH 493
Qy 99 PSSRERSRSRSHQPSC----SPEL 117
Db 494 FGRRAGRSKRYTRASAGARYNPQL 517

RESULT 10
US-09-949-016-10513
; Sequence 10513 Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: Venter, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL013107
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-03-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 10513
; LENGTH: 382
; TYPE: PRT
; ORGANISM: Human
; US-09-949-016-10513

Query Match 11.4%; Score 70.5; DB 4; Length 382;
Best local Similarity 22.0%; Pred. No. 2.6;
Matches 27; Conservative 20; Mismatches 37; Indels 39; Gaps 4;
Qy 1 MPSPGTVCSLLGMLWLDLAMAGSSFLSPEHORVQVRPHKAPIVVPALPSN----- 54
Db 62 IPKGQAQCQICITYVICEDSYLAGTGLGSAPOAVDN-----PAMPTSSGECNV 112
Qy 55 QLCLEQQRHLW---ASVFQSOKSD-----GSDLTVGRIWGL 90
Db 113 KLCGLEEARQIKOKSAIYPIMDKSSTRALLICNEEFDSIPRRTGAEVDITGMNLL 172
Qy 91 RVL 93
Db 173 QNL 175

RESULT 11
US-08-311-916A-4
; Sequence 4 Application US/08311916A
; Patent No. 5856169
; GENERAL INFORMATION:
; APPLICANT: Litwack, Gerald
; APPLICANT: Almenei, Emad S
; APPLICANT: Fernandez-Almenei, Teresa
; TITLE OF INVENTION: ISOFORMS OF HUMAN INTERLEUKIN-1BETA CONVERTING ENZYME AND METHODS OF USING THE SAME
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz & NO. 5856169r18
; STREET: One Liberty Place, 46th floor
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows
; SOFTWARE: WordPerfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/391,916A
; FILING DATE: 21-FEB-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: DeLuca, Mark
; REGISTRATION NUMBER: 33,229
; REFERENCE/DOCKET NUMBER: TUU-1464
; TELEPHONE: (215) 568-3439
; TELEFAX: (215) 568-3100
; INFORMATION FOR SEQ ID NO: 4:
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 568-3439
; SEQUENCE CHARACTERISTICS:
; LENGTH: 383 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-311-916A-4

Query Match 11.4%; Score 70.5; DB 2; Length 383;
Best local Similarity 22.0%; Pred. No. 2.6;
Matches 27; Conservative 20; Mismatches 37; Indels 39; Gaps 4;
Qy 1 MPSPGTVCSLLGMLWLDLAMAGSSFLSPEHORVQVRPHKAPIVVPALPSN----- 54
Db 62 IPKGQAQCQICITYVICEDSYLAGTGLGSAPOAVDN-----PAMPTSSGECNV 112
Qy 55 QLCLEQQRHLW---ASVFQSOKSD-----GSDLTVGRIWGL 90
Db 113 KLCGLEEARQIKOKSAIYPIMDKSSTRALLICNEEFDSIPRRTGAEVDITGMNLL 172

RESULT 12
US-09-74-803B-23
; Sequence 23 Application US/09746803B
; Patent No. 6759227
; GENERAL INFORMATION:
; APPLICANT: Van de Craen, Marc

APPLICANT: Declercq, Wim
 APPLICANT: Vandenebeel, Peter
 TITLE OF INVENTION: NEW CASPASE HOMOLOGUE
 FILE REFERENCE: 2676-4661US
 CURRENT APPLICATION NUMBER: US/09/764,803B
 CURRENT FILING DATE: 2001-01-17
 PRIOR APPLICATION NUMBER: PCT/EP99/04939
 PRIOR FILING DATE: 1999-07-12
 PRIOR APPLICATION NUMBER: EP 98202422.6
 NUMBER OF SEQ ID NOS: 26
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO: 23
 LENGTH: 393
 TYPE: PRT
 ORGANISM: Homo sapiens
 LOCATION: (1). (383)
 OTHER INFORMATION: human caspase-1 (genbank)
 US-09-764-803B-23

Query Match 11.4%; Score 70.5; DB 4; Length 393;
 Best Local Similarity 22.0%; Pred. No. 2.6; Mismatches 27; Conservative 20; Indels 39; Gaps 4; Matches 37;

Qy 1 MPSPGTVCSLLILGMWLDLAMAGSSPLSFEPHQVQRPPHKAPHVPAALPSN-----
 Db 62 IPKGAQACQICITYCIEEDSYLAGTGLSAPAQYDN-----PANTSSSEGIV 112
 Qy 55 QCDIDEQQRHWW---ASVVSQSTKDS-----GSDLTVGRTWGL 90
 Db 113 KUCSLSEAQRWKQSABEIVPPMDKSRSRTRALIICNEEFSDIPRTGAEVDIRGTMLL 172

Qy 91 RVL 93
 Db 173 QNL 175

RESULT 13
 Sequence 19806, Application US/09248796A
 Patent No. 6747137

GENERAL INFORMATION:
 APPLICANT: Keith Weinstock et al.
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
 TITLE OF INVENTION: FOR DIAGNOSTICS AND THERAPEUTICS
 FILE REFERENCE: 107196.132
 CURRENT APPLICATION NUMBER: US/09/248,796A
 PRIOR APPLICATION NUMBER: 60/1074,725
 PRIOR FILING DATE: 1998-02-13
 PRIOR APPLICATION NUMBER: US 60/096,409
 PRIOR FILING DATE: 1998-08-13
 NUMBER OF SEQ ID NOS: 28208
 SEQ ID NO: 19806
 LENGTH: 393
 TYPE: PRT
 ORGANISM: Candida albicans
 US-09-248-796A-19806

Query Match 11.4%; Score 70.5; DB 4; Length 393;
 Best Local Similarity 31.6%; Pred. No. 2.7; Mismatches 24; Conservative 12; Indels 23; Gaps 17; Matches 23; Gaps 4;

Qy 39 PRPHKAVVPLP-LSNQLCDLEQQRHLWASVFSQS-----TKSGSDITVSGT 87
 Db 185 PPPAPAPORLPSLPTSMPESTSQQQHVVWSTDOSHHSHHQVPPSAITTDSASTTRNT 244
 Qy 88 WGLRV---LNRLLP 98
 Db 245 MPFOVSTNTIDINR-FP 259

RESULT 14
 Sequence 11, Application US/0940417A
 Patent No. 6627729

GENERAL INFORMATION:
 APPLICANT: Sheppard, Paul O.
 APPLICANT: Deisher, Theresa A.
 APPLICANT: Jaspers, Stephen R.
 TITLE OF INVENTION: TML PEPTIDES
 FILE REFERENCE: 97-04C1
 CURRENT APPLICATION NUMBER: US/09/404,417A
 CURRENT FILING DATE: 1999-09-23
 NUMBER OF SEQ ID NOS: 13
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO: 11
 LENGTH: 18
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-09-404-417A-11

Query Match 11.3%; Score 70; DB 4; Length 18;
 Best Local Similarity 93.3%; Pred. No. 0.038; Mismatches 14; Conservative 0; Indels 0; Gaps 0; Matches 0;

Qy 24 GSEFLSPPEHQVQR 38
 Db 1 GSSFLSPPEHQVQR 15

RESULT 15
 Sequence 7379, Application US/09949016
 Patent No. 6812339

GENERAL INFORMATION:
 APPLICANT: VENTER, J. Craig et al.
 TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 FILE REFERENCE: CL001307
 CURRENT APPLICATION NUMBER: US/09/949,916
 CURRENT FILING DATE: 2000-04-14
 PRIOR APPLICATION NUMBER: 60/241,755
 PRIOR FILING DATE: 2000-10-20
 PRIOR APPLICATION NUMBER: 60/237,768
 PRIOR FILING DATE: 2000-10-03
 PRIOR APPLICATION NUMBER: 60/231,498
 PRIOR FILING DATE: 2000-09-08
 NUMBER OF SEQ ID NOS: 207012
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 7379
 LENGTH: 835
 TYPE: PRT
 ORGANISM: Human
 US-09-949-016-7379

Query Match 11.2%; Score 69.5; DB 4; Length 835;
 Best Local Similarity 25.9%; Pred. No. 10; Mismatches 38; Conservative 14; Indels 51; Gaps 8; Matches 38;

Qy 9 SLLIG-----MFLDLMAGSSF-----LSPEH-QRVQVR----- 38
 Db 71 SILLGATGDLAKKYLWQCLFOLYLBEGRGRHSFSHGALTAQKQGIMAKALESHSC 130
 Qy 39 -----PRPHKAVVPLP-LSNQLCDLEQQRHLWASVFSQS-----TKSGSDITVSGT 92
 Db 131 PRDMAPSGCAEH-----KDQFLQLSQYRQLKTAEDVQALNDIEAQLOHA----GIRE 179
 Qy 93 LNRLLF---PPSSRERSRSHOPSCSP 115
 Db 180 AGRIFYFSVPPFAVEDIARNINSSCRP 206

Wed Jul 27 09:47:28 2005

us-10-659-782b-32.rai

Page 6

Search completed: July 26, 2005, 14:39:05
Job time : 43 secs

GenCore version 5.1.6
 Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: July 26, 2005, 14:29:30 ; Search time 155 Seconds
 (without alignments)

Scoring table: 293.626 Million cell updates/sec

Title: US-10-659-782B-32

Perfect score: 620

Sequence: 1 MPSPGTVCSLLIGMLWDL..... PPSSRRSRSHQPCSP 117

Gapop 10.0 , Gapext: 0.5

Searched: 1741741 seqs, 388992284 residues

Total number of hits satisfying chosen parameters: 1741741

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA:*

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No. Match

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No. Match

No. Score % Query Match Length DB ID Description

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RESULT 1
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 ; Sequence 32, Application US/10659782A
 Publication No. US20050059015A1
 GENERAL INFORMATION:
 ; APPLICANT: Minic, Liat
 ; TITLE OF INVENTION: Compositions, Reagents and Kits for and Methods of Diagnosing,
 ; TITLE OF INVENTION: Monitoring and Treating Obesity and/or Diabetes
 ; CURRENT APPLICATION NUMBER: US/10/659,782A
 ; CURRENT FILING DATE: 2003-09-11
 ; NUMBER OF SEQ ID NO: 42
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO: 32
 ; LENGTH: 116
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-659-782A-32

Query Match Similarity 97.7%; Score 605.5; DB 17; Length 116;
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 Matches 116; Conservative 0;

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Sequence 3, Application US/10234191A
; Publication No. US20030211512A1
; GENERAL INFORMATION:
; APPLICANT: Rothschild, Max F.
; APPLICANT: Kim, Kwan Suk
; APPLICANT: Anderson, Lloyd L.
; TITLE OF INVENTION: Novel Ghrelin Alleles and Use of the Same for Genetically Typing
; FILE REFERENCE: P05408US1
; CURRENT APPLICATION NUMBER: US/10/294,191A
; CURRENT FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: US 60/333,222
; PRIOR FILING DATE: 2001-11-14
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 60
; TYPE: PRT
; ORGANISM: Human
; US-10-294-191A-3

RESULT 3
US-10-477-506-2
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Best Local Similarity 88.6%; Pred. No. 8.4e-14; Indels 0; Gaps 0;
Matches 39; Conservative 0; Mismatches 5;

QY 1 MPSPGTVCSLLIGMILWDLAMAGSSFLSPERHQVQVRPHKAP 44
Db 1 MPSPGTVCSLLIGMILWDLAMAGSSFLSPERHQVQVRKESKKP 44

US-10-477-506-2
Sequence 2, Application US/10477506
Publication No. US2004015722A1
GENERAL INFORMATION:
APPLICANT: Chopin, Lisa K
APPLICANT: Jeffery, Penelope L
APPLICANT: Herrington, Adrian C
TITLE OF INVENTION: REPRODUCTIVE CANCER DIAGNOSIS AND THERAPY
FILE REFERENCE: 225101
CURRENT APPLICATION NUMBER: US/10/477,506
CURRENT FILING DATE: 2003-11-10
PRIOR APPLICATION NUMBER: PR9567
APPLICANT: Chopin, Lisa K
APPLICANT: Jeffery, Penelope L
APPLICANT: Herrington, Adrian C
TITLE OF INVENTION: REPRODUCTIVE CANCER DIAGNOSIS AND THERAPY
FILE REFERENCE: 225101
CURRENT APPLICATION NUMBER: US/10/477,506
CURRENT FILING DATE: 2003-11-10
PRIOR FILING DATE: 2001-12-17
PRIOR APPLICATION NUMBER: PR4919
PRIOR FILING DATE: 2001-05-10
PRIOR APPLICATION NUMBER: PCT/AU02/000582
PRIOR FILING DATE: 2002-05-10
NUMBER OF SEQ ID NOS: 17
SOFTWARE: PatentIn version 3.1
SEQ ID NO 2
LENGTH: 91
TYPE: PRT
ORGANISM: Homo sapiens
US-10-477-506-2

Query Match 31.9%; Score 198; DB 16; Length 91;
Best Local Similarity 88.6%; Pred. No. 1.4e-13; Indels 0; Gaps 0;
Matches 39; Conservative 0; Mismatches 5;

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Db 1 MPSPGTVCSLLIGMILWDLAMAGSSFLSPERHQVQVRKESKKP 44

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US-09-853-253-2
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Best Local Similarity 88.6%; Pred. No. 1.9e-13; Indels 0; Gaps 0;
Matches 39; Conservative 0; Mismatches 5;

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Db 1 MPSPGTVCSLLIGMILWDLAMAGSSFLSPERHQVQVRKESKKP 44

US-09-853-253-2
Sequence 2, Application US/09853253
Patent No. US2002005156A1
GENERAL INFORMATION:
APPLICANT: JASPER, STEPHEN
APPLICANT: SHERPARD, PAUL
APPLICANT: DELSHER, THERESA
APPLICANT: BISHOP, PAUL
TITLE OF INVENTION: Zb1933-1-like Peptide
FILE REFERENCE: 00-30
CURRENT APPLICATION NUMBER: US/09/853,253
CURRENT FILING DATE: 2001-05-10
PRIOR APPLICATION NUMBER: 60/203,300
PRIOR FILING DATE: 2000-05-11
NUMBER OF SEQ ID NOS: 28
SOFTWARE: FastSeqQ for Windows Version 3.0
SEQ ID NO 2
LENGTH: 117
TYPE: PRT
ORGANISM: Homo sapiens
US-09-853-253-2

Query Match 31.9%; Score 198; DB 9; Length 117;
Best Local Similarity 88.6%; Pred. No. 1.9e-13; Indels 0; Gaps 0;
Matches 39; Conservative 0; Mismatches 5;

PRIOR APPLICATION NUMBER: 60/090252

PRIOR FILING DATE: 1998-06-22

PRIOR APPLICATION NUMBER: 60/090254

PRIOR FILING DATE: 1998-06-22

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PRIOR FILING DATE: 1998-06-24

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PRIOR FILING DATE: 1998-06-24

PRIOR APPLICATION NUMBER: 60/090472

PRIOR FILING DATE: 1998-06-24

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PRIOR APPLICATION NUMBER: 60/090695

PRIOR FILING DATE: 1998-06-25

PRIOR APPLICATION NUMBER: 60/090696

PRIOR FILING DATE: 1998-06-25

US-09-999-723-268

; Sequence 268, Application US/09989723

; Patent No. US20020072092A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber-Hanspeter

APPLICANT: Garritsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Goddard, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: KJ Javin, Ivar J.

APPLICANT: Matanah, Colin K.

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William T.

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

FILE REFERENCE: P2730P1C62

CURRENT APPLICATION NUMBER: US/09/989,723

CURRENT FILING DATE: 2001-11-19

PRIOR APPLICATION NUMBER: 60/049787

PRIOR FILING DATE: 1997-06-16

PRIOR APPLICATION NUMBER: 60/062250

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/065186

PRIOR FILING DATE: 1997-11-12

PRIOR APPLICATION NUMBER: 60/065311

PRIOR FILING DATE: 1997-03-20

PRIOR APPLICATION NUMBER: 60/066770

PRIOR FILING DATE: 1997-11-24

PRIOR APPLICATION NUMBER: 60/075945

PRIOR FILING DATE: 1998-02-25

PRIOR APPLICATION NUMBER: 60/078910

PRIOR FILING DATE: 1998-03-20

PRIOR APPLICATION NUMBER: 60/083322

PRIOR FILING DATE: 1998-04-28

PRIOR APPLICATION NUMBER: 60/084600

PRIOR FILING DATE: 1998-05-07

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PRIOR FILING DATE: 1998-05-28

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PRIOR APPLICATION NUMBER: 60/087827

PRIOR FILING DATE: 1998-06-03

PRIOR APPLICATION NUMBER: 60/088021

PRIOR FILING DATE: 1998-06-04

PRIOR APPLICATION NUMBER: 60/088025

PRIOR FILING DATE: 1998-06-04

PRIOR APPLICATION NUMBER: 60/088029

PRIOR FILING DATE: 1998-06-04

PRIOR APPLICATION NUMBER: 60/088030

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Best Local Similarity: 88.6%; Pred. No.: 1.9e-13; Indels: 5; Gaps: 0;

Matches: 39; Conservative: 0; Mismatches: 544

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US-09-999-279-269
 Sequence 288, Application US/9998279
 ; Patent No. US20020072496A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi J.
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Botstein, David

APPLICANT: Destroyers, Luc
 APPLICANT: Eaton, Dan L.
 APPLICANT: Ferrara, Napoleone
 APPLICANT: Fong, Sherman
 APPLICANT: Gerber, Hanspeter
 APPLICANT: Gerritsen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Grimaldi, J. Christopher
 APPLICANT: Gurney, Austin L.
 APPLICANT: Kjelavik, Ivar J.
 APPLICANT: Napier, Mary A.
 APPLICANT: Pan, James
 APPLICANT: Paoni, Nicholas F.
 APPLICANT: Roy, Margaret Ann
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Watanabe, Colin K.
 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William I.
 APPLICANT: Zhang, Zemin
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic Acid Encoding the Same
 FILE REFERENCE: P2730P1C56
 CURRENT APPLICATION NUMBER: US 09/989,279
 CURRENT FILING DATE: 2001-11-19
 PRIOR APPLICATION NUMBER: 60/049787
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 PRIOR APPLICATION NUMBER: 60/062250
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 PRIOR APPLICATION NUMBER: 60/091982
 PRIOR FILING DATE: 1998-07-07
 PRIOR APPLICATION NUMBER: 60/092182
 PRIOR FILING DATE: 1998-07-09

RESULT 9
 US-09-919-727-268
 Sequence 268, Application US/09989727
 Patent No. US2002007497A1
 GENERAL INFORMATION:
 APPLICANT: Ashkenazi, Avi J.
 APPLICANT: Baker, Kevin P.
 APPLICANT: Borstein, David
 APPLICANT: Desnoyers, Luc
 APPLICANT: Eaton, Dan L.
 APPLICANT: Ferrara, Napoleone
 APPLICANT: Fong, Sherman
 APPLICANT: Gerber, Hanspeter
 APPLICANT: Gerritsen, Mary E.
 APPLICANT: Goddard, Audrey

Query Match 31.9%; Score 198; DB 9; Length 117;
 Best Local Similarity 88.6%; Pred. No. 1.9e-13; Gaps 0;
 Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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 PRIOR FILING DATE: 1998-06-05
 PRIOR APPLICATION NUMBER: 60/088217
 PRIOR FILING DATE: 1998-06-05
 PRIOR APPLICATION NUMBER: 60/088655
 PRIOR FILING DATE: 1998-06-09

APPLICANT: Godowski, Paul J.
 APPLICANT: Grimaldi, J. Christopher
 APPLICANT: Gurney, Austin L.
 APPLICANT: Kijavini, Ivar J.
 APPLICANT: Napier, Mary A.
 APPLICANT: Pan, James
 APPLICANT: Paoni, Nicholas F.
 APPLICANT: Roy, Margaret Ann
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Watanabe, Colin K.
 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William I.
 APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic Acid Encoding the Same
 CURRENT APPLICATION NUMBER: US/09/989,727
 CURRENT FILING DATE: 2001-11-19
 FILE REFERENCE: P2730P1G65
 PRIOR APPLICATION NUMBER: 60/049787
 PRIOR FILING DATE: 1997-06-16
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; PRIOR FILING DATE: 1998-07-09

Query 1 MPSPGTVCSLLGMLWIDLMAGSSFSPEHORVQVRPHKAP 44
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; Query Match 31.9%; Score 198; DB 9; Length 117;
; Best Local Similarity 88.6%; Pred. No. 1.9e-13; Indels 0; Gaps 0;
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; General Information: Patent No. US20020103125A1
; Applicant: Ashkenazi, Avi J.
; Applicant: Baker, Kevin P.
; Applicant: Botstein, David
; Applicant: Deinoyers, Luc
; Applicant: Eaton, Dan L.
; Applicant: Ferrara, Napoleone
; Applicant: Fong, Sherman
; Applicant: Gerber-Hansbeter
; Applicant: Gerritsen, Mary E.
; Applicant: Goddard, Audrey
; Applicant: Godowski, Paul J.
; Applicant: Grimaldi, J. Christopher
; Applicant: Gurney, Austin L.
; Applicant: Kujavin, Ivar J.
; Applicant: Napier, Mary A.
; Applicant: Pan, James
; Applicant: Paoni, Nicholas F.

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APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watansabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P273OP1C70
CURRENT APPLICATION NUMBER: US/09/989,731
CURRENT FILING DATE: 2001-11-20
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PRIOR FILING DATE: 1997-06-16
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 PRIOR APPLICATION NUMBER: 60/092182
 PRIOR FILING DATE: 1998-07-09

Query Match 31, 9%; Score 198; DB 9; Length 117;
 Best local similarity 88.6%; Pred. No. 1.9e-13; DB 9;
 Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MPSPTGVCSSLGLGMWLDAAGASSFLSPHEQRVQVRPHKAP 44
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RESULT 11
 US-09-939-732-268
 ; Sequence 268, Application US/09989732
 ; Patent No. US2002012463A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.
 APPLICANT: Baker, Kevin P.
 APPLICANT: Borstein, David
 APPLICANT: Desnoyers, Luc
 APPLICANT: Eaton, Dan L.
 APPLICANT: Ferrara, Napoleone
 APPLICANT: Fong, Sherman
 APPLICANT: Gerber, Hanspeter
 APPLICANT: Gerritsen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Grimaldi, J.Christopher
 APPLICANT: Gurney, Austin L.
 APPLICANT: Kjavian, Ivar J.
 APPLICANT: Napier, Mary A.
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 APPLICANT: Paoni, Nicholas P.
 APPLICANT: Roy, Margaret Ann
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
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 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William I.
 APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic Acids Encoding the Same
 FILE REFERENCE: P2730PC57
 CURRENT APPLICATION NUMBER: US/09/989,732
 CURRENT FILING DATE: 2001-11-19
 PRIOR APPLICATION NUMBER: 60/049787
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PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090676
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090678
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090690
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090694

PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090695
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091519
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091625
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

RESULT 12
US-09-991-073-268
Sequence 268, Application US/09991073
; Patent No. US2002012576A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi,Avi J.
; APPLICANT: Baker,Kevin P.
; APPLICANT: Borstein,David
; APPLICANT: Deinoers,Luc
; APPLICANT: Eaton,Dan L.
; APPLICANT: Ferrara,Napoleone
; APPLICANT: Fong,Sherman
; APPLICANT: Gerber,Hanspeter
; APPLICANT: Gerritsen,Mary E.
; APPLICANT: Goddard,Audrey
; APPLICANT: Grimaldi,Paul J.
; APPLICANT: Grimaldi,J.Christopher
; APPLICANT: Gurney,Austin L.
; APPLICANT: KJLavijn,Ivar J.
; APPLICANT: Napier,Mary A.
; APPLICANT: Pan,James
; APPLICANT: Paoni,Nicholas F.
; APPLICANT: Roy,Margaret Ann
; APPLICANT: Stewart,Timothy A.
; APPLICANT: Tumas,Daniel
; APPLICANT: Watanae,Colin K.
; APPLICANT: Williams,M. Mickey
; APPLICANT: Wood,William I.
; APPLICANT: Zhang,Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2230PC15
CURRENT APPLICATION NUMBER: US/09/991,073
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16

PRIOR APPLICATION NUMBER: 60/090863
 PRIOR FILING DATE: 1998-06-26
 PRIOR APPLICATION NUMBER: 60/091360
 PRIOR FILING DATE: 1998-07-01
 PRIOR APPLICATION NUMBER: 60/091478
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091544
 PRIOR FILING DATE: 1998-07-01
 PRIOR APPLICATION NUMBER: 60/091519
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091626
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091633
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091978
 PRIOR FILING DATE: 1998-07-07
 PRIOR APPLICATION NUMBER: 60/091982
 PRIOR FILING DATE: 1998-07-07
 PRIOR APPLICATION NUMBER: 60/092182
 PRIOR FILING DATE: 1998-07-09

Query Match 31.9%; Score 198; DB 9; Length 117;
 Best Local Similarity 88.6%; Pred. No. 1.9e-13; Matches 39; Conservativeness 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 NPSPGTVCSLLLGMWLDDAMAGSSPLSPHQRVQVRPHKAP 44
 Db 1 NPSPGTVCSLLLGMWLDDAMAGSSPLSPHQRVQRKESKKP 44

RESULT 13
 US-09-990-442-268
 Sequence 268 Application US/09990442
 Patent No. US20000132252A1
 GENERAL INFORMATION:
 APPLICANT: Ashkenazi, Avi J.
 APPLICANT: Baker, Kevin P.
 APPLICANT: Botstein, David
 APPLICANT: Desnoyers, Luc
 APPLICANT: Eaton, Dan L.
 APPLICANT: Ferrara, Napoleone
 APPLICANT: Fong, Sherman
 APPLICANT: Gerber, Hans Peter
 APPLICANT: Gerritsen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Grimaldi, J. Christopher
 APPLICANT: Hurney, Austin L.
 APPLICANT: Kiljavin, Ivar J.
 APPLICANT: Napier, Mary A.
 APPLICANT: Pan, James
 APPLICANT: Paoni, Nicholas F.
 APPLICANT: Roy, Margaret Ann
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Wattnabe, Colin K.
 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William I.
 APPLICANT: Zhang, Zainin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic Acid Encoding the Same

FILE REFERENCE: P2730F1C8
 CURRENT APPLICATION NUMBER: US/09/990,442
 CURRENT FILING DATE: 2001-11-14
 PRIOR APPLICATION NUMBER: 60/049787
 PRIOR FILING DATE: 1997-05-16
 PRIOR APPLICATION NUMBER: 60/062250
 PRIOR FILING DATE: 1997-10-17
 PRIOR APPLICATION NUMBER: 60/065186
 PRIOR FILING DATE: 1997-11-12
 PRIOR APPLICATION NUMBER: 60/065311
 PRIOR FILING DATE: 1997-11-13
 PRIOR APPLICATION NUMBER: 60/066770
 PRIOR FILING DATE: 1998-06-17

PRIOR FILING DATE: 1997-11-24
 PRIOR APPLICATION NUMBER: 60/075945
 PRIOR FILING DATE: 1998-02-25
 PRIOR APPLICATION NUMBER: 60/078910
 PRIOR FILING DATE: 1998-03-20
 PRIOR APPLICATION NUMBER: 60/083322
 PRIOR FILING DATE: 1998-04-28
 PRIOR APPLICATION NUMBER: 60/084600
 PRIOR FILING DATE: 1998-05-07
 PRIOR APPLICATION NUMBER: 60/087106
 PRIOR FILING DATE: 1998-05-28
 PRIOR APPLICATION NUMBER: 60/087507
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 PRIOR FILING DATE: 1998-06-17

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PRIOR APPLICATION NUMBER: 60/089600
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089801
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: 60/089907
PRIOR FILING DATE: 1998-06-18
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PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090444
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PRIOR FILING DATE: 1998-06-24
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PRIOR APPLICATION NUMBER: 60/090863
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544

RESULT 14
US-09-991-163-26B
; Sequence 26B, Application US/09991163
; Patent No. US20020132253A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Geritten, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kujavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William T.
; APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2130P1C17
CURRENT APPLICATION NUMBER: US/09/991,163
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28

Query Match Score 198; DB 9; Length 117;
Best Local Similarity 88.6%; Pred. No. 1 9e-13; Mismatches 0; Indels 0; Caps 0;
Matchers 39; Conservative 0; Db 1
Qy 1 MPSPGTVOSLLGMLWDLAMAGSSFSPEHQVQTPRPHQAP 44
Db 1 MPSPGTVOSLLGMLWDLAMAGSSFSPEHQVORVOORKESKKP 44

PRIOR APPLICATION NUMBER: 60/091978
 PRIOR FILING DATE: 1998-07-07
 PRIOR APPLICATION NUMBER: 60/091982
 PRIOR FILING DATE: 1998-07-07
 PRIOR APPLICATION NUMBER: 60/092182
 PRIOR FILING DATE: 1998-07-09

Query Match 31.9%; Score 198; DB 9; Length 117;
 Best Local Similarity 88.6%; Pred. No. 1.9e-13; Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0; Gaps 0;

Qy	Db
	1 MPSPGTVCSSLGMLWLDLAMAGSSFLSPHEQRVYRPHKAP 44
	1 MPSPGTVCSSLGMLWLDLAMAGSSFLSPHEQRVYRPHKAP 44

RESULT 15
 US-09-993-604-268
 Sequence 268, Application US/09993604
 Patent No. US20020137075A1
 GENERAL INFORMATION:
 APPLICANT: Ashkenazi, Avi J.
 APPLICANT: Baker, Kevin P.
 APPLICANT: Borstein, David
 APPLICANT: Deenoyers, Luc
 APPLICANT: Eaton, Dan L.
 APPLICANT: Ferrara, Napoleone
 APPLICANT: Fong, Sherman
 APPLICANT: Gerber, Hanspeter
 APPLICANT: Gerritsen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Gołtowski, Paul J.
 APPLICANT: Grimaldi, J. Christopher
 APPLICANT: Guirney, Austin L.
 APPLICANT: Klijavín, Ivar J.
 APPLICANT: Napier, Mary A.
 APPLICANT: Pan, James
 APPLICANT: Paoni, Nicholas F.
 APPLICANT: Roy, Margaret Ann
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Watarabe, Colin K.
 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William T.
 APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic Acid Encoding the Same
 TITLE OF INVENTION: Acids Encoding the Same
 FILE REFERENCE: P2730P1C25

CURRENT APPLICATION NUMBER: US/09/993,604
 CURRENT FILING DATE: 2001-11-14
 PRIOR APPLICATION NUMBER: 60/049787
 PRIOR FILING DATE: 1997-06-16
 PRIOR APPLICATION NUMBER: 60/062250
 PRIOR FILING DATE: 1997-10-17
 PRIOR APPLICATION NUMBER: 60/065186
 PRIOR FILING DATE: 1997-11-12
 PRIOR APPLICATION NUMBER: 60/065311
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 PRIOR FILING DATE: 1997-11-24
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 PRIOR APPLICATION NUMBER: 60/083322
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 PRIOR FILING DATE: 1998-05-28
 PRIOR APPLICATION NUMBER: 60/087607
 PRIOR FILING DATE: 1998-06-02
 PRIOR APPLICATION NUMBER: 60/087609
 PRIOR FILING DATE: 1998-06-18
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089532
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089538
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089514
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 PRIOR APPLICATION NUMBER: 60/089599
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089600
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089653
 PRIOR FILING DATE: 1998-06-17
 PRIOR APPLICATION NUMBER: 60/089801
 PRIOR FILING DATE: 1998-06-18
 PRIOR APPLICATION NUMBER: 60/089907
 PRIOR FILING DATE: 1998-06-18

Query Match 31.9%; Score 198; DB 9; Length 117;
 Best Local Similarity 88.6%; Pred. No. 1.9e-13;
 Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
 Oy 1 MPSPGTVCSILLGLMLWIDLAMAGSSFSPEHORVQVPPRHKAP 44
 Db 1 MPSPGTVCSILLGLMLWIDLAMAGSSFSPEHORVQORKESKCP 44

Search completed: July 26, 2005, 14:42:56

Job time : 157 secs

PRIOR APPLICATION NUMBER: 60/099908
 PRIOR FILING DATE: 1998-05-18
 PRIOR APPLICATION NUMBER: 60/089947
 PRIOR FILING DATE: 1998-05-19
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 PRIOR FILING DATE: 1998-05-19
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 PRIOR FILING DATE: 1998-06-26
 PRIOR APPLICATION NUMBER: 60/090863
 PRIOR FILING DATE: 1998-06-26
 PRIOR APPLICATION NUMBER: 60/091360
 PRIOR FILING DATE: 1998-07-01
 PRIOR APPLICATION NUMBER: 60/091478
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091544
 PRIOR FILING DATE: 1998-07-01
 PRIOR APPLICATION NUMBER: 60/091519
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091626
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091633
 PRIOR FILING DATE: 1998-07-02
 PRIOR APPLICATION NUMBER: 60/091978
 PRIOR FILING DATE: 1998-07-07
 PRIOR APPLICATION NUMBER: 60/091982
 PRIOR FILING DATE: 1998-07-07
 PRIOR APPLICATION NUMBER: 60/092182
 PRIOR FILING DATE: 1998-07-09

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ALIGNMENT

XX	Sequence	60 AA;	ID	AAW8791 standard; protein; 117 AA.
SQ			XX	
Query Match	31.9%;	Score 198; DB 8; Length 60;	AC	AAW8791;
Best Local Similarity	88.6%;	Pred. No. 1.8e-14; Mismatches 0; Indels 0; Gaps 0;	XX	
Matches	39;	Conservative 0; Mismatches 5; Indels 0; Gaps 0;	DT	07-APR-1999 (first entry)
OY	1	MPSPGTVCSILLGMLWLDAWAGSSFLSPERORVPRPHKAP 44	DE	Protein designated zsig33.
Db	1	MPSGTVCSSLLGMLWLDAWAGSSFLSPERORVPRKESKKP 44	XX	Zsig33; gastric motility; gastrointestinal inflammation; reflux disease; nutrient absorption regulation; obesity; metabolic disorder.
RESULT 2			OS	Homo sapiens.
AAE33410			XX	
ID	AAE33410	standard; protein; 91 AA.	FH	
XX			FT	
AC	AAE33410;		Peptide	1..23 /note= "signal peptide"
XX			FT	Protein 24..117 /note= "mature protein"
DT	02-APR-2003	(first entry)	FT	
XX			XX	
DE	Human exon 3-deleted ghrelin protein.		PN	W09842840-A1.
XX			PD	01-OCT-1998.
DE			XX	
KW	Ghrelin; preproghrelin; GHS-R 1b; benign prostatic hyperplasia; therapy; breast; cervical; uterine; choriocarcinoma; prostate; ovary; cytotriatic; cancer; human.		PF	23-MAR-1998; 98WO-US005620.
KW			XX	
KW			PR	24-MAR-1997; 97US-0041102P.
OS			PR	24-MAR-1997; 97US-00822897.
XX	Homo sapiens.		XX	
PN	WO200290387-A1.		PA	(ZYMO) ZYMOGENETICS INC.
XX			XX	
PD	14-NOV-2002.		PT	Sheppard PO, Deshner TA;
XX			XX	
PF	10-MAY-2002; 2002WO-AU000582.		DR	WPI; 1999-070071/06.
XX			XX	
PR	10-MAY-2001; 2001AU-00004919.		DR	WPI; 1999-070071/06.
XX			XX	
PR	17-DEC-2001; 2001AU-00009567.		PT	Human polypeptide having homology to motilin, zsig33 - useful e.g. to treat gastrointestinal motility disorders, obesity etc. and to identify antagonists to treat gastrointestinal hypermotility.
XX			XX	
PA	(UROU-) UNIV QUEENSLAND TECHNOLOGY.		PS	Claim 13; Page 55-56; 69pp; English.
XX			XX	
PT	Chopin LK, Jeffery PL, Herington AC;		CC	The present sequence represents a protein designated zsig33. The nucleic acids are strongly expressed in stomach tissue. The polypeptide (or allelic variants/orthologs) can be used to stimulate gastric motility, measured as increased transit time or gastric emptying of an ingested substance in mammals. The products are used to treat disorders associated with gastrointestinal cell contractility, secretion of digestive enzymes/acids, gastrointestinal motility, recruitment of digestive enzymes, gastrointestinal inflammation, reflux disease and nutrient absorption regulation. Zsig33 polypeptides may also be important neurologically, since the family of gut-brain peptides to which the homologous protein motilin belongs has been associated with neurological and CNS functions. They may therefore be used e.g. to regulate satiety or treat obesity and other metabolic disorders where neurological feedback modulates nutritional absorption. They are useful to identify zsig33 agonists, antagonists and ligands and to produce antibodies against zsig33.
XX			CC	
DR	NP-PSDB; AAD50726.		XX	
XX			PS	Claim 14; Page 34; 50pp; English.
PT	Identifying a cancer cell or tissue for treating prostate, ovarian, breast cancer, or benign prostatic hyperplasia, by detecting the expression of a ghrelin, an exon-3 deleted preproghrelin and/or a GHS-R 1b protein or nucleic acids.		XX	
PT			XX	
PT			PS	Claim 14; Page 34; 50pp; English.
XX			XX	
XX			CC	The invention relates to a method for identifying a cancer cell or tissue of the reproductive system by detecting expression of a ghrelin, an exon-3 deleted preproghrelin and/or a GHS-R 1b protein or nucleic acids. The antibodies, exon 3-deleted form of preproghrelin and antagonists are useful for treating cancer of the reproductive system such as prostate, ovarian, breast, cervical or uterine cancer, choriocarcinoma or benign prostatic hyperplasia. The present sequence is human exon 3-deleted ghrelin protein.
XX			CC	
SQ	Sequence 91 AA;		CC	
Query Match	31.9%;	Score 198; DB 2; Length 117;	CC	
Best Local Similarity	88.6%;	Pred. No. 2.4e-14; Mismatches 5; Indels 0; Gaps 0;	CC	
Matches	39;	Conservative 0; Mismatches 5; Indels 0; Gaps 0;	CC	
OY	1	MPSGTVCSSLLGMLWLDAWAGSSFLSPERORVPRPHKAP 44	CC	
Db	1	MPSGTVCSSLLGMLWLDAWAGSSFLSPERORVPRKESKKP 44	CC	
RESULT 4			CC	
AAW87235			CC	
ID	AAW87236	standard; protein; 117 AA.	XX	
AC	AAW87236;		XX	
RESULT 3			XX	
AAW87991			XX	

XX
 DT 11-MAY-2000 (first entry)
 XX
 DE Human signal peptide containing protein HSPP-13 SEQ ID NO:13.
 XX
 KW Human; signal peptide-containing protein; HSPP; diagnosis; cancer;
 KW inflammation; cardiovascular disease; anticancer; anti-inflammatory;
 KW antimicrobial; nootropic; neuroprotective; cardiovascular; hepatotoxic;
 KW gene therapy; cell proliferation; neurological disorder;
 KW reproductive disorder; developmental disorder; arteriosclerosis;
 KW cirrhosis; psoriasis; acquired immune deficiency syndrome; anaemia;
 KW asthma; Crohn's disease; Alzheimer's disease; schizophrenia;
 KW Parkinson's disease; Huntington's disease; ovulatory defect;
 KW muscular dystrophy.
 OS Homo sapiens.
 XX
 PN WO20000610-A2.
 XX
 PD 06-JAN-2000.
 XX
 PP 25-JUN-1999; 99WO-US014484.
 XX
 PR 26-JUN-1998; 98US-0094983P.
 PR 31-JUL-1998; 98US-0094983P.
 PR 01-OCT-1998; 98US-0102486P.
 PR 11-DEC-1998; 98US-0112129P.
 XX
 PA (INCYT-) INCYTE PHARM INC.
 PI Lal P, Tang YT, Gorgone GA, Corley NC, Gugler KJ, Baughn MR;
 PI Akerblom IE, Au-Young J, Yue H, Patterson C, Reddy R, Hillman JL;
 PI Bandman O;
 XX
 DR WPI; 2000-160673/14.
 N-PSDB; AAZ9821.
 XX
 PT New human signal peptide-containing proteins useful in treatment, inflammation and cardiovascular
 PT prevention and diagnosis of e.g. cancer, inflammation and cardiovascular
 PT disease.
 XX
 PS Claim 1; Page 168-169; 32PP; English.
 XX
 CC AAZ98109 to AAZ98242 encode AY87324 to AY87357 which represent the
 CC human signal peptide-containing proteins HSPP-1 to HSPP-14. HSPPs have
 CC anticancer, anti-inflammatory, antimicrobial, nootropic, hepatotoxic,
 CC neuroprotective, cardiovascular and antiasthmatic activities, and can be
 CC used in gene therapy. HSPPs can be used to treat or prevent disorders
 CC associated with decreased activity or function of HSPP. Antagonists of
 CC HSPP are used to treat or prevent disorders associated with increased
 CC activity or function of HSPP. Such diseases include cell proliferation
 CC (including cancer), inflammation, cardiovascular, neurological,
 CC reproductive or developmental disorders, (e.g. arteriosclerosis,
 CC cirrhosis, psoriasis, acquired immune deficiency syndrome, anaemia,
 CC asthma, Crohn's disease, microbial or other infections, congestive or
 CC ischaemic heart disease, Alzheimer's, Parkinson's or Huntington's
 CC diseases, schizophrenia, ovariectomy, defects, muscular dystrophy). HSPP
 CC nucleic acids can be used for the recombinant production of HSPP, for
 CC detecting HSPP in standard hybridisation and amplification assays (for
 CC diagnosis and monitoring), in gene therapy, as antisense, triplex-forming
 CC or ribozyme therapeutics, for detecting related sequences or genetic
 CC variations, and for chromosomal mapping. HSPP are also used to raise
 CC specific antibodies (Ab) and to screen for agonists and antagonists
 CC (potential therapeutic agents). Ab are used to diagnose, or monitor, HSPP
 CC -related diseases (in usual immunoassays), as therapeutic antagonists, in
 CC competitive drug screens, and for purification of HSPP from natural
 CC sources
 SQ Sequence 117 AA;

Query Match 31.9%; Score 198; DB 3; Length 117;
 Best Local Similarity 88.6%; Pred. No. 2.4e-14;
 Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MPSPGTVCSILLGMLWLAMAGSSFSPEHQRVQVRPHKAP 44
 Db 1 MPSPGTVCSILLGMLWLAMAGSSFSPEHQRVQVRKESKKP 44

RESULT 5
 AAB20101
 ID AAB20101 standard; protein; 117 AA.
 XX
 AC AAB20101;
 XX
 DT 23-APR-2001 (first entry)
 XX
 DE Zs1g33 protein.
 XX
 KW SGIP; zsig33; anorectic; antidiabetic; somatotropin; somatomedin-C;
 KW nutritional absorption modulator; growth hormone secretagogue; therapy;
 KW human.
 XX
 OS Homo sapiens.
 XX
 PR 04-JAN-2001.
 XX
 PR 30-JUN-1999; 99WOS-00345157.
 XX
 PA (ZYMO) ZYMOGENETICS INC.
 XI Sheppard PO, Jaspers SR, Deisher TA, Bishop PD;
 XX
 DR WPI; 2001-123010/13.
 N-PSDB; AAFT30033.
 XX
 PT Novel variants of SGIP peptides for modulating contractility in duodenum
 PT or jejunum tissue, pancreatic secretion of hormones and digestive
 enzymes, inducing growth hormone secretion or modulating gastric
 PT emptying.
 XX
 PS Disclosure; 54; 61PP; English.
 XX
 The present sequence is that of zsig33, a secreted protein with homology
 CC to motilin (see AAB20102). Zs1g33 is expressed at high levels in the
 CC stomach, and at lower levels in the small intestine and pancreas. A novel
 CC peptide fragment of zsig33, termed SGIP (see AAB20100), is claimed. SGIP
 CC is a ligand for growth hormone secretagogue receptor, and is therefore
 CC useful for modulating secretion of growth hormone and insulin like growth
 CC factor 1. SGIP, and variant SGIP peptides, are used in claimed methods
 CC for stimulating contractility in duodenum or jejunum tissue, modulating
 CC pancreatic secretion of hormones and digestive enzymes, inducing growth
 CC hormone secretion, and modulating gastric emptying
 XX
 Sequence 117 AA;

Query Match 31.9%; Score 198; DB 4; Length 117;
 Best Local Similarity 88.6%; Pred. No. 2.4e-14;
 Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 MPSPGTVCSILLGMLWLAMAGSSFSPEHQRVQVRPHKAP 44
 Db 1 MPSPGTVCSILLGMLWLAMAGSSFSPEHQRVQVRKESKKP 44

RESULT 6	QY	1 MPSPGTVCSLLLGMLWIDLMAGSSFTSPFHORVQPRPHKAP 44
AAB62649	ID	1 MPSPGTVCSLLLGMLWIDLMAGSSFSFSPFHORVQPRKESKKP 44
XX	AC	AAB62649;
XX	DT	23-JUL-2001 (first entry)
XX	DE	Human zsig33 polypeptide.
XX	KW	zsig33; signal transduction; hormone; enzyme; neural development; gastric contractility; nutrient uptake; digestive; pancreatic; human; insulin-like growth factor-I; growth hormone; bone; G-protein coupled receptor.
XX	KW	glucose; osteopathic; anorectic; pulmonary; immunomodulator; GHS-R; G-protein coupled receptor.
OS	OS	Homo sapiens.
XX	PH	zsig33; signal transduction; hormone; enzyme; neural development; gastric contractility; nutrient uptake; digestive; pancreatic; human; insulin-like growth factor-I; growth hormone; bone; G-protein coupled receptor.
XX	PH	glucose; osteopathic; anorectic; pulmonary; immunomodulator; GHS-R; G-protein coupled receptor.
XX	KEY	Location/Qualifiers
FT	Peptide	24.-37 /note= "specifically claimed fragment that binds to the GHS-R"
FT	PT	Forming reversible Peptide receptor complex for purifying cell and peptidases, stimulating signal transduction and modulating hormone secretion, involves contacting a receptor with zsig33 polypeptide.
PT	PT	Forming reversible Peptide receptor complex for purifying cell and peptidases, stimulating signal transduction and modulating hormone secretion, involves contacting a receptor with zsig33 polypeptide.
XX	PN	WO200138355-A2.
XX	PD	31-MAY-2001.
XX	PP	22-NOV-2000; 2000WO-US032074.
XX	PR	22-NOV-1999; 99US-0166765P.
XX	PA	(ZMNO) ZYMOGENETICS INC.
XX	PI	Sheppard PO, Jaspers SR, Deisher TA, Bishop PD;
XX	DR	WPI; 2001-355979/37.
DR	DR	N-PSDB; AAF83678.
XX	PT	Forming reversible Peptide receptor complex for purifying cell and peptidases, stimulating signal transduction and modulating hormone secretion, involves contacting a receptor with zsig33 polypeptide.
XX	PS	Claim 1; Page 93-94; 11pp; English.
CC	CC	The invention relates to a method of forming a reversible peptide-receptor complex that involves providing an immobilized receptor, and contacting the receptor with a zsig33 peptide (comprising residues 24-37 of AAB62649), where the receptor binds to the zsig33 peptide. The method is useful for purifying cells, purifying a peptide, stimulating signal transduction in a cell expressing a receptor. It is also useful for modulating secretion of hormones, neural development and/or utilization, gastric contractility, nutrient uptake, secretion of digestive and pancreatic enzymes and hormones, secretion of insulin-like growth factor -I, secretion of non-zsig33 proteins. It is useful for modulating growth hormone secretion in a mammal having a disease associated with abnormal levels of growth hormone, such as osteoporosis, bone repair, bone remodeling, low osteoblast levels, cartilage repair and remodeling, skeletal dysplasia, immune suppression, obesity, growth retardation, protein catabolic responses after surgery, cachexia, protein loss, dwarfism, wound healing and induction, treating a mammal having a metabolic disorder requiring neurological feedback, such as satiety regulation, glucose absorption and metabolism and neuropathy-associated release in a mammal. The present sequence represents the human zsig33 polypeptide, a peptide ligand for the G-protein coupled receptor, GHS-R Sequence 117 AA;
CC	CC	31.9%; Score 198; DB 4; Length 117;
CC	CC	Best Local Similarity 88.6%; Pred. No. 2.4e-14; Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
SQ	QY	1 MPSPGTVCSLLLGMLWIDLMAGSSFTSPFHORVQPRPHKAP 44
Db	1 MPSPGTVCSLLLGMLWIDLMAGSSFSFSPFHORVQPRKESKKP 44	
RESULT 7	QY	1 MPSPGTVCSLLLGMLWIDLMAGSSFTSPFHORVQPRPHKAP 44
AM38890	ID	1 MPSPGTVCSLLLGMLWIDLMAGSSFSFSPFHORVQPRKESKKP 44
XX	AC	AAM38890;
XX	DT	22-OCT-2001 (first entry)
XX	DE	Human polypeptide SEQ ID NO 2035.
XX	KW	Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer; peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic; chemokinetic; thrombolytic; drug screening; arthritis; inflammation; leukaemia.
XX	OS	Homo sapiens.
XX	PN	WO200153312-A1.
XX	PD	26-JUL-2001.
XX	PP	26-DEC-2000; 2000WO-US034263.
XX	PR	23-DEC-1999; 99US-00471275.
PR	PR	21-JAN-2000; 2000US-0048875.
PR	PR	25-APR-2000; 2000US-00552317.
PR	PR	20-JUN-2000; 2000US-00598042.
PR	PR	19-JUL-2000; 2000US-00620312.
PR	PR	03-AUG-2000; 2000US-00653450.
PR	PR	14-SEP-2000; 2000US-00662191.
PR	PR	19-OCT-2000; 2000US-00693036.
PR	PR	29-NOV-2000; 2000US-00727344.
XX	PA	(HYSEB-) HYSEQ INC.
XX	PT	Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D, Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J, Zhao QA;
XX	PI	Zhou P, Goodrich R, Drmanac RT;
XX	DR	WPI; 2001-442253/47.
XX	DR	N-PSDB; AAI8046.
XX	PT	Novel nucleic acids and polypeptides, useful for treating disorders such as central nervous system injuries.
XX	PS	Example 3; SEQ ID NO 2035; 10078pp; English.
XX	CC	The invention relates to human nucleic acids (AAI5798-AAI61369) and the encoded polypeptides (AAM3642-AAM42213) with nootropic, immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system suppression, Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and C.N.S disorders. Note: The sequence data for this patent, did not form part of the printed specification
SQ	QY	Sequence 117 AA;

Qy	1 MPSPGTVCSILLGLMLWLDLAMAGSSFLSPERHORVQVRPKAP 44	Db	1 MPSPGTVCSILLGLMLWLDLAMAGSSFLSPERHORVQVRPKAP 44
1 MPSPGTVCSILLGLMLWLDLAMAGSSFLSPERHORVQVRPKAP 44	1 MPSPGTVCSILLGLMLWLDLAMAGSSFLSPERHORVQVRPKAP 44	RESULT 9	RESULT 9
Best Local Similarity 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;	Best Local Similarity 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;	ABB78319 standard; protein: 117 AA.	ABB78319 standard; protein: 117 AA.
XX	XX	XX	XX
AC	AC	AC	AC
AAB60511;	AAB60511;	ABB78319;	ABB78319;
XX	XX	XX	XX
DT	24-APR-2001 (first entry)	DT	05-DEC-2002 (first entry)
DE	Human ghrelin preproprotein, SEQ ID NO:5.	DE	Amino acid sequence of a human zsig33.
XX	KW	XX	Short gastrointestinal peptide; SGIP; zsig33; motilin.
AC	Growth hormone secretagogue; GHS; ghrelin; precursor; preproprotein;	XX	OS Homo sapiens.
XX	KW calcium concentration elevation; infant growth disorder;	XX	Key
KW	growth hormone deficiency.	FH	Location/Qualifiers
XX	Homo sapiens.	FT	1..23 /note= "signal peptide"
XX	XX	FT	Protein 24..119 /note= "mature protein"
PN	WO200107475-A1.	PR	US6420521-B1.
XX	XX	XX	XX
PD	01-FEB-2001.	PD	16-JUL-2002.
XX	XX	PF	30-JUN-2000; 2000US-00608810.
PF	24-JUL-2000; 2000WKO-JP004907.	PR	30-JUN-1999; 99US-0141592P.
XX	PR 23-JUL-1999; 99JP-00210002.	XX	XX
PR	PR 29-NOV-1999; 99JP-00338841.	PA	(ZYMO) ZYMOGENETICS INC.
PR	PR 26-APR-2000; 2000JP-00126623.	PT	Sheppard PO, Jaspers SR, Deisher TA, Bishop PD;
XX	PA (KANG/) KANGAWA K.	XX	DR
XX	XX	DR WPI; 2002-634794/68.	N-PSDB; ABV7214.
PI	Kangawa K, Kojima M, Hosoda H, Matsuo H, Minamitake Y;	XX	XX
XX	XX	PT New Short Gastrointestinal Peptide, which has homology to motilin, useful	PT for preventing, diagnosing and treating gastrointestinal disorders.
DR	WPI; 2001-159704/16.	XX	PS Disclosure; Col 39-40; 23PP; English.
N-PSDB;	N-PSDB; AAP59645.	XX	XX
XX	The invention relates to a novel peptide compound or its salt which induces the secretion of growth hormone and/or elevates calcium ion concentration in cells. The peptides are ghrelin homologues and are characterized in that at least one amino acid has been substituted by a modified amino acid and/or a non-amino acid compound. The invention also encompasses the unmodified peptides; the DNA encoding the peptides; vectors and host cells comprising such DNA; a method of producing the peptides comprising recombinant production, optionally followed by chemical modification; an antibody specific for a peptide of the invention; and an assay and kit for detecting the peptides. The peptides of the invention are useful for treating and/or diagnosing diseases caused by a deficiency in growth hormone expression or activity. In particular, they are useful for promoting infant growth due to growth hormone deficiency. The compounds of the invention are safe with no accompanying side effects. The present sequence represents a ghrelin-type sequence 117 AA;	CC The present sequence represents human zsig33. The specification describes a short gastrointestinal peptide (SGIP), which is derived from zsig33. SGIP has homology to motilin. The SGIP peptide may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate SGIP expression. For example, SGIP may be used to treat disorders associated with decreased expression by rectifying mutations or deletions in a patient's genome that affect the activity of SGIP by expressing inactive proteins or to supplement the patient's own production of SGIP. SGIP may also be used as an antigen in the production of antibodies against SGIP and in assays to identify modulators of SGIP expression and activity. The anti-SGIP antibodies, agonists and antagonists may also be used to regulate expression and activity. The anti-SGIP antibodies may also be used as diagnostic agents for detecting the presence of SGIP in samples	
CC	XX	CC	XX
CC	Sequence 117 AA;	CC	Sequence 117 AA;
CC	Query Match 31.9%; Score 198; DB 4; Length 117;	CC	Query Match 31.9%; Score 198; DB 5; Length 117;
CC	Best Local Similarity 88.6%; Pred. No. 2.4e-14; Mismatches 39; Conservative 0; Indels 0; Gaps 0;	CC	Best Local Similarity 88.6%; Pred. No. 2.4e-14; Mismatches 39; Conservative 0; Indels 0; Gaps 0;
CC	accompanying side effects. The present sequence represents a ghrelin-type growth hormone secretagogue (GHS) precursor protein of the invention	CC	accompanying side effects. The present sequence represents a ghrelin-type growth hormone secretagogue (GHS) precursor protein of the invention
SQ	XX	Db	1 MPSPGTVCSILLGLMLWLDLAMAGSSFLSPERHORVQVRPKAP 44
Query Match 31.9%; Score 198; DB 4; Length 117;	Best Local Similarity 88.6%; Pred. No. 2.4e-14; Mismatches 39; Conservative 0; Indels 0; Gaps 0;	Qy	1 MPSPGTVCSILLGLMLWLDLAMAGSSFLSPERHORVQVRPKAP 44
Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;	XX	Db	1 MPSPGTVCSILLGLMLWLDLAMAGSSFLSPERHORVQVRPKAP 44
Qy	1 MPSPGTVCSILLGLMLWLDLAMAGSSFLSPERHORVQVRPKAP 44	RESULT 10	RESULT 10
XX	XX	AAB23838	AAB23838 standard; protein; 117 AA.
XX	XX	ID AAB23838	ID AAB23838 standard; protein; 117 AA.

AC AAE23838;
 XX
 DT 10-SEP-2002 (first entry)
 XX
 DE Human zsig33 protein.
 XX
 KW Human; zsig33-like peptide; gastric contractility; nutrient uptake;
 KW growth hormone; digestive enzyme; restorative therapy; gene therapy;
 KW protein therapy; gastrointestinal; endocrine; anabolic.
 XX
 OS Homo sapiens.
 PN US2002055156-A1.
 XX
 PD 09-MAY-2002.
 XX
 PR 10-MAY-2001; 2001US-00853253.
 XX
 PR 11-MAY-2000; 2000US-0203300P.
 XX
 PA (JASP/) JASPER S. R.
 PA SHEPPARD P. O.
 PA (DEIS/) DEISHER T. A.
 PA (BISH/) BISHOP P. D.
 XX
 PT ZSIG33-like peptides and polyribonucleotides, useful for modulating gastric
 PT contractility, nutrient uptake, growth hormones and/or secretion of
 PT digestive/pancreatic enzymes and hormones.
 XX
 PS Disclosure; Page 27, 34pp; English.
 CC The invention relates to zsig33-like peptides and their corresponding
 CC nucleic acids and methods for modulating gastric contractility, nutrient
 CC uptake, growth hormones, secretion of digestive enzymes and hormones. The
 CC sequences of the invention are used in the prevention, diagnosis and
 treatment of diseases associated with inappropriate ZSIG33 expression.
 CC The nucleic acids of the invention and their complements are used as DNA
 CC probes in diagnostic assays to detect and quantitate the presence of
 CC similar nucleic acids in samples, and therefore which patients may be in
 CC need of restorative therapy. The ZSIG33 peptides are used as antigens in
 CC the production of antibodies against ZSIG33 and in assays to identify
 CC modulators of ZSIG33 expression and activity. The anti-ZSIG33 antibodies
 CC and antagonists are used to down regulate expression and activity. The
 CC anti-ZSIG33 antibodies are also used as diagnostic agents for detecting
 CC the presence of ZSIG33 in samples (e.g., by enzyme linked immunosorbent
 CC assay (ELISA)). The peptides and nucleic acids of the invention are used
 CC to modulate gastric contractility, nutrient uptake, growth hormones, the
 CC secretion of digestive enzymes and hormones, and/or secretion of enzymes
 CC and/or hormones in the pancreas. zsig33-like DNA is used in gene therapy
 CC and zsig33-like peptide is used in protein therapy. The present sequence
 CC is human zsig33 protein.
 SQ Sequence 117 AA;

Query Match 31.9%; Score 198; DB 5; Length 117;
 Best Local Similarity 88.6%; Pred. No. 2.4e-14;
 Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 1 NPSPGTYCSLILGMWLDLAMAGSFLSPHORVQVRPHKAP 44
 Db 1 NPSPGTYCSLILGMWLDLAMAGSFLSPHORVQVRKESKKP 44

RESULT 11
 ID AAB15883
 ID AAE15883 standard; protein; 117 AA.
 AC AAE15883;

XX
 DT 26-MAR-2002 (first entry)
 XX
 DE Human zsig33 protein.
 XX
 KW Human; zsig33-like peptide; ZS33LP; immunity; developmental process;
 KW infection; human immunodeficiency virus; vaccine; antihypoglycaemic;
 KW absorption enhancer; gastrointestinal disease; growth related disease;
 KW inflammation; gene therapy; growth regulation; blood vessel formation;
 KW HIV; zsig33 protein.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT Peptide 1..23
 FT /label= Signal_peptide
 FT Protein 24..117
 FT /note= "Human mature zsig33 protein"
 XX
 PN WO200187933-A2.
 XX
 PR 22-NOV-2001.
 XX
 PR 10-MAY-2001; 2001WO-US015091.
 XX
 PR 11-MAY-2000; 2000US-00569271.
 XX
 PA (ZM0) ZYMOGENETICS INC.
 XX
 PI Jaspers SR, Sheppard PO, Deisher TA, Bishop PD;
 XX
 PR WPI; 2002-082982/11.
 DR N-PSDB; AAD25759.

PT New polypeptides, useful for modulating gastric contractility, nutrient
 PT uptake, pancreatic secretion of hormones, digestive enzymes and treating
 PT gastrointestinal and growth related diseases, comprises zsig33-like
 PT peptides.
 XX
 PS Disclosure; Page 80-81; 89pp; English.

CC The invention relates to zsig33-like peptides (ZS33LP) including zsig33-
 CC linker, zsig33-beta, zsig33-gamma, zsig33-delta and zsig33-epsilon
 CC peptides and nucleic acid molecules encoding such zsig33-like peptides.
 CC ZS33LP peptides activate the immune system in boosting immunity to
 CC infectious diseases, treating immunocompromised patients such as human
 CC immunodeficiency virus (HIV) patients, in improving vaccines and in
 CC treatment of bacterial, viral, protozoal and fungal infections. Peptides
 CC of the invention are used to identify and isolate receptors involved in
 CC growth regulation in the liver, blood vessel formation and other
 CC developmental processes. They are useful for evaluating functions of
 CC hypothalamus-pituitary-adrenal axis, to modulate growth and/or
 CC differentiation of tumour cells, as additives to anti-hyperglycaemic
 CC preparations containing glucose and as adorption enhancers for oral
 CC drugs which require fast nutrient action and to stimulate glucose-induced
 CC insulin release. They are also useful as research reagents for the
 CC expansion, differentiation, growth factor and hormone secretion and/or
 CC cell-cell interactions of tissues associated with gastrointestinal
 CC system, brain and central nervous system. These molecules are useful for
 CC treating dysfunction associated with contractile tissues or to suppress
 CC or enhance contractility in vivo and to treat gastrointestinal and growth
 CC related diseases. ZS33LP peptides, nucleic acids and/or antibodies are
 CC useful for treating disorders associated with gastrointestinal
 CC contractility, secretion of digestive enzymes, hormone and acids,
 CC secretion of hormones in the pancreas and/or brain, gastrointestinal
 CC motility, recruitment of digestive enzymes, inflammation and regulation
 CC of nutrient absorption. Sequences of the invention are useful in gene
 CC therapy. The present sequence is human zsig33 protein
 XX
 Sequence 117 AA;

Query Match 31.9%; Score 198; DB 5; Length 117;
 Best Local Similarity 88.6%; Pred. No. 2.4e-14;

Matches	39;	Conservative	0;	Mismatches	5;	Indels	0;	Gaps	0;
Qy	1	MPSGIVCSSLILGMWLDAAGSFSFLSPERHQVQVRPHKAP	44						
Db	1	MPSGIVCSSLILGMWLDAAGSFSFLSPERHQVQVRKESKKP	44						
RESULT	12								
ABUS846									
ID	ABUS846	standard; protein; 117 AA.							
XX									
AC	ABUS846;								
XX									
DT	14-APR-2003	(first entry)							
XX									
DB	Human	PRO polypeptide #78.							
XX									
KW	Human; PRO; cytosolic; tumour; cancer; breast; lung; stomach; liver; horse; cow; dog; cat; sheep; pig; goat; rabbit; ADEPT; antibody-dependent enzyme mediated prodrug therapy.								
KW									
OS	Homo sapiens.								
XX									
PN	US2003027163-A1.								
XX									
PD	06-FEB-2003.								
XX									
PP	15-NOV-2001;	2001US-00997666.							
PR	16-JUN-1997;	97US-0049787P.							
PR	17-OCT-1997;	97US-0052250P.							
PR	05-NOV-1997;	97US-00500069.							
PR	12-NOV-1997;	97US-0065186P.							
PR	13-NOV-1997;	97US-005311P.							
PR	24-NOV-1997;	97US-0066770P.							
PR	25-FEB-1998;	98US-0075945P.							
PR	20-MAR-1998;	98US-0078910P.							
PR	28-APR-1998;	98US-0083322P.							
PR	04-JUN-1998;	98US-0084600P.							
PR	28-MAY-1998;	98US-0087106P.							
PR	02-JUN-1998;	98US-0087607P.							
PR	02-JUN-1998;	98US-0087609P.							
PR	02-JUN-1998;	98US-0087759P.							
PR	03-JUN-1998;	98US-0087827P.							
PR	04-JUN-1998;	98US-0088021P.							
PR	04-JUN-1998;	98US-0088025P.							
PR	05-JUN-1998;	98US-0088026P.							
PR	05-JUN-1998;	98US-0088028P.							
PR	04-JUN-1998;	98US-0088029P.							
PR	04-JUN-1998;	98US-0088030P.							
PR	09-JUN-1998;	98US-0088033P.							
PR	10-JUN-1998;	98US-0088326P.							
PR	10-JUN-1998;	98US-0088167P.							
PR	05-JUN-1998;	98US-0088202P.							
PR	05-JUN-1998;	98US-0088212P.							
PR	05-JUN-1998;	98US-0088217P.							
PR	09-JUN-1998;	98US-0088655P.							
PR	10-JUN-1998;	98US-0088734P.							
PR	10-JUN-1998;	98US-0088861P.							
PR	11-JUN-1998;	98US-0088738P.							
PR	11-JUN-1998;	98US-0088876P.							
PR	12-JUN-1998;	98US-0088810P.							
PR	10-JUN-1998;	98US-0088824P.							
PR	10-JUN-1998;	98US-0088826P.							
PR	11-JUN-1998;	98US-0088858P.							
PR	11-JUN-1998;	98US-0088861P.							
PR	11-JUN-1998;	98US-0088873P.							
PR	11-JUN-1998;	98US-0088876P.							
PR	12-JUN-1998;	98US-0089105P.							
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 PR 17-JUN-1998; 98US-0089635P.
 PR 18-JUN-1998; 98US-0089801P.
 PR 18-JUN-1998; 98US-0089907P.
 PR 18-JUN-1998; 98US-0089908P.
 PR 16-SEP-1998; 98US-0089930P.
 PR 17-SEP-1998; 98US-00899437.
 PR 07-OCT-1998; 98US-00899511.
 PR 01-DEC-1998; 98US-008995108.
 PR 05-JAN-1999; 98US-008990106.
 PR 08-MAR-1999; 98US-008990528.
 PR 02-JUN-1999; 98US-0089912252.
 PR 15-SEP-1999; 98US-008991090.
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 PR 28-FEB-2001; 2001US-008996520.
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 PR 20-JUN-2001; 2001US-0089919692.
 PR 29-JUN-2001; 2001US-008991066.
 PR 09-TUL-2001; 2001US-0089921735.
 PR 28-AUG-2001; 2001US-008991992.
 PA (GERP) GENENTECH INC.
 XX
 PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Baton DL,
 PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A,
 PI Grimaldi JC, Gurney AL, Kijavin IJ, Napier MA, Pan J,
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM,
 PI Zhang Z;
 XX
 DR WPI; 2003-247083/24.
 DR N-ISDB; ABX80294.
 XX
 PS Claim 12; FIG 186; 649pp; English.

The invention describes an isolated human PRO polypeptide. The PRO polypeptides are useful in detecting PRO polypeptides in a sample, in linking a bioactive molecule to a cell expressing a PRO polypeptide, and in modulating at least one biological activity of a cell expressing a PRO polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus

CC useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186 stimulate adrenal cortical capillary endothelial growth, and PRO536, PRO943, PRO826, PRO1068 or PRO535, PRO26, PRO19, R01126, PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus useful for treating conditions or disorders where angiogenesis would be beneficial, e.g. wound healing and antagonist of this polypeptide are useful for treating cancerous tumours. PRO12 inhibits vascular endothelial growth factor (VEGF) stimulated proliferation of endothelial cells and is thus useful for inhibiting endothelial cell growth in mammals which would be beneficial in inhibiting tumour growth. PRO926, PRO168, PRO1184, PRO1346 and PRO1375 stimulate proliferation of stimulated T-lymphocytes and are therapeutically useful for enhancing immune response. PRO828, PRO826, PRO168 or PRO132 enhance survival of retinal neurons cells (PRO1132 is also enhances survival/proliferation of rod photoreceptor cells) and are useful for treating eye disorders of injuries, e.g. retinitis pigmentosum, AMD. PRO819, PRO813 and PRO1066 induce proliferation of mammalian kidney meangial cells, and therefore are useful for treating kidney disorders associated with decreased meangial cell function such as Berger disease or other nephropathies associated with dermatitis, herpetiformis or Crohn's disease. PRO310, PRO844, PRO1312, PRO1192 and PRO1387 induce proliferation and/or redifferentiation of chondrocytes in culture and are thus useful for treating sports injuries, and arthritis. This is the amino acid sequence of a novel human PRO protein

XX SQ Sequence 117 AA;

Query Match 31.9%; Score 198; DB 6; Length 117;
 Best Local Similarity 88.6%; Pred. No. 2.4e-14;
 Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

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RESULT 14

ID ABU82636
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 AC ABU82636;
 XX DT 26-JUN-2003 (first entry)
 XX DE Human secreted/transmembrane protein PRO1066.
 XX Human; PRO; secreted protein; transmembrane protein; wound healing; cardiac insufficiency disorders; angiogenesis; wound healing; cancerous tumour; immune response; retinal disorder; sight loss; retinitis pigmentosum; age-related macular degeneration; AMD; kidney disorder; Berger disease; nephropathy; dermatitis; herpetiformis; Crohn's disease; sports injury; arthritis.
 XX Homo sapiens.
 XX US2003032023-A1.
 PN XX
 PD 13-FEB-2003.
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 PF 14-NOV-2001; 2001US-00990711.
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 PR 17-OCT-1997; 97US-0062250P.
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 PR 25-FEB-1998; 98US-0075945P.
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 PR 07-MAY-1998; 98US-0084600P.
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PR	28-JUL-2000;	2000MO-US020710.	PR	02-DEC-1999;	99MO-US028554.
PR	11-AUG-2000;	2000MO-US022031.	PR	03-DEC-1999;	99MO-US028555.
Query	Best Local Similarity	31.9%; Score 198; DB 6; Length 117;	PR	16-DEC-1999;	99MO-US03005.
QY	Matches	81.6%; Pred. No. 2.4E-14; Mismatches 5; Indels 0; Gaps 0;	PR	20-DEC-1999;	99MO-US030939.
Db		1 MPSPGTVCSLLLGMLWLDAAGSSFSLSPHERQVQRKESKKP 44 1 MPSPGTVCSLLLGMLWLDAAGSSFSLSPHERQVQRKESKKP 44	PR	22-DEC-1999;	99MO-US031243.
			PR	30-DEC-1999;	99MO-US031274.
			PR	05-JAN-2000;	2000MO-US000219.
			PR	06-JAN-2000;	2000MO-US000277.
			PR	06-FEB-2000;	2000MO-US003755.
			PR	18-FEB-2000;	2000MO-US04311.
			PR	18-FEB-2000;	2000MO-US04342.
			PR	22-FEB-2000;	2000MO-US004414.
			PR	24-FEB-2000;	2000MO-US004944.
			PR	24-FEB-2000;	2000MO-US005004.
			PR	01-MAR-2000;	2000MO-US005601.
			PR	02-MAR-2000;	2000MO-US005746.
			PR	02-MAR-2000;	2000MO-US005811.
			PR	10-MAR-2000;	2000MO-US006319.
			PR	15-MAR-2000;	2000MO-US006884.
			PR	20-MAR-2000;	2000MO-US007377.
			PR	21-MAR-2000;	2000MO-US007512.
			PR	30-MAR-2000;	2000MO-US008439.
			PR	17-MAY-2000;	2000MO-US013705.
			PR	22-MAY-2000;	2000MO-US014042.
			PR	30-MAY-2000;	2000MO-US014941.
			PR	02-JUN-2000;	2000MO-US015264.
			PR	28-JUL-2000;	2000MO-US020710.
			PR	11-AUG-2000;	2000MO-US022031.
			PR	22-AUG-2000;	2000MO-US023522.
			PR	24-AUG-2000;	2000MO-US023358.
			PR	08-NOV-2000;	2000MO-US030952.
			PR	10-NOV-2000;	2000MO-US030873.
			PR	01-DEC-2000;	2000US-0074729.
			PR	20-DEC-2000;	2000MO-US034956.
			PR	21-FEB-2001;	2001US-00796498.
			PR	28-FEB-2001;	2001MO-US006520.
			PR	01-MAR-2001;	2001MO-US006666.
			PR	01-MAR-2001;	2001US-00860216.
			PR	14-MAR-2001;	2001US-0086869.
			PR	22-MAR-2001;	2001US-00816744.
			PR	28-FEB-2001;	2001US-00828166.
			PR	10-MAY-2001;	2001US-0084208.
			PR	10-MAY-2001;	2001US-0085420.
			PR	18-MAY-2001;	2001US-00860216.
			PR	25-MAY-2001;	2001US-0086220.
			PR	23-MAY-2001;	2001US-00866034.
			PR	23-MAY-2001;	2001MO-US017929.
			PR	01-JUN-2001;	2001US-00872035.
			PR	01-JUN-2001;	2001MO-US017800.
			PR	05-JUN-2001;	2001US-00874303.
			PR	14-JUN-2001;	2001US-00882636.

PR 19-JUN-2001; 2001US-00886342.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 21-JUN-2001; 2001US-00887879.
 PR 22-JUN-2001; 2001WO-US020116.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 18-JUL-2001; 2001US-00508827.
 PR 06-AUG-2001; 2001US-00324419.
 PR 09-AUG-2001; 2001US-00927795.
 PR 16-AUG-2001; 2001US-0031836.
 PR 19-DEC-2001; 2001US-00028072.
 XX (GUTH) GENETECH INC.
 PA
 XX
 PT Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
 PT Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
 PT Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
 XX DR WPI; 2003-341980/32.
 DR N-PSDB; ACD24073.
 PT New secreted and transmembrane PRO nucleic acids, for treating
 PT inflammation, organ failure, atherosclerosis, cardiac injury, deficiency
 PT infertility, birth defects, premature aging, acquired immunodeficiency
 PT syndrome (AIDS), or cancer.
 XX PS Claim 12; Fig 442; 660pp; English.
 XX
 CC The invention describes an isolated nucleic acid (I) comprising, or which
 CC has 80 % sequence identity to, or the full-length coding sequence of, one
 CC of 275 nucleotide sequences, and which encodes a corresponding
 CC polypeptide selected from 275 amino acid sequences, where all sequences
 CC are given in the specification. The polypeptide encoded by (I) is used to
 detect PRO polypeptides, link a bioactive molecule to a cell expressing a
 CC PRO polypeptide, modulate a biological activity of a cell, stimulate the
 release of tumour necrosis factor (TNF)-alpha from human blood, modulate
 CC the uptake of glucose or free fatty acid by cells, stimulate or inhibit
 CC the proliferation or differentiation of cells or gene expression,
 CC stimulate the release of proteoglycans, stimulate the release of cytokine
 CC from peripheral blood mononuclear cells, inhibit the binding of A-peptide
 CC to factor VIII, or detect the presence of tumour in a mammal. The nucleic
 acid and polypeptide encoded by it, are useful for treating inflammatory
 CC diseases, organ failure, atherosclerosis, cardiac injury, infertility,
 CC birth defects, premature aging, acquired immunodeficiency syndrome
 (AIDS), cancer, or diabetic complications. The nucleic acid is useful as
 CC hybridisation probes, in chromosome and gene mapping, and in generating
 CC antisense RNA or DNA. The polypeptides are useful as pharmaceuticals,
 CC diagnostics, biosensors or bioreactors. Both are useful in tissue typing.
 CC This is the amino acid sequence of a novel human secreted and
 CC transmembrane PRO polypeptide
 XX Sequence 117 AA;
 SQ

Query Match 31.9%; Score 198; DB 6; Length 117;
 Best Local Similarity 88.6%; Pred. No. 2.4e-14; Mismatches 5; Indels 0; Gaps 0;
 Matches 39; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY	1	MPSGVVCSSLGLMILWLDLAMAGSSPLSFHORVVRPDKAP 44
Db	1	MPSGVVCSSLGLMILWLDLAMAGSSFLSPHEQRVQRKESKKP 44

Search completed: July 26, 2005, 14:29:20
 Job time : 177 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 26, 2005, 14:19:28 ; Search time 40 seconds
 (without alignments)
 281.434 Million cell updates/sec

Title: US-10-659-782B-32

Perfect score: 620

Sequence: 1 MPSPGTVCSLLGMLWLDD... PPSSRERRSRSHQPSCL 117

Scoring table: BL0SUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : PIR_79,*

1: pir1;*

2: pir2;*

3: pir3;*

4: pir4;*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Query Match Length DB ID Description

1	198	31.9	117	1	A59316	ghrelin precursor - human
2	158	25.5	117	1	B59316	ghrelin precursor
3	78	12.6	136	2	AG0449	regulator of nucle
4	73.5	11.9	2018	2	T34274	hypothetical prote
5	73	11.8	573	2	JCC4335	anti-mullerian hor
6	73	11.8	725	1	B64211	virulence-associat
7	72.5	11.7	555	2	B60433	hypothetical prote
8	72	11.6	666	2	T22943	hypothetical prote
9	71.5	11.5	764	2	I48882	thyrotropin receptor
10	70.5	11.4	309	2	S77905	lyase - Pseudomona
11	70.5	11.4	383	2	A56084	interleukin-1beta
12	69	11.1	302	2	H96792	unknown protein
13	69	11.1	1487	2	S62048	probable membrane
14	68	11.0	796	2	T32425	hypothetical prote
15	68	11.0	1474	2	B85188	retrotransposon li
16	68	11.0	2088	2	E71435	hypothetical prote
17	67.5	10.9	764	2	A35956	thyrotropin receptor
18	67	10.8	187	2	T51876	hypothetical prote
19	67	10.8	363	2	F91255	sensor protein Bas
20	67	10.8	363	2	C86106	sensor protein for
21	67	10.8	363	2	JX0285	sensor protein bas
22	67	10.8	449	2	C89296	hypothetical 51.8K
23	67	10.8	519	2	G84707	probable M8B family
24	66.5	10.7	263	2	C56084	interleukin-1beta
25	66.5	10.7	311	2	B56084	conserved hypothet
26	66.5	10.7	749	2	A75560	site-specific DNA-
27	66	10.6	428	2	JH0634	bifunctional prote
28	66	10.6	1001	2	T28897	A;Cross-references: UNIPROT:Q90XH7; GB:AB029433; NID:96691569; PID:BA99370.1; PID:9669
29	65.5	10.6	304	2	S25080	A;Experimental source: strain SB; tissue stomach endocrine cells

ALIGNMENTS

hypothetical prote
 conserved hypothet
 hypothetical prote
 regulatory protein
 meiosis initiation
 hypothetical prote
 ABC transporter, A
 serine protease
 probable transmem
 hypothetical prote
 fission yeast Skbl
 mitosis initiation
 sensory transducti
 tin - rabbit (fr
 ribosomal protein
 hypothetical prote

A;Note: submitted to GenBank, June 1999
 C;Comment: Ghrelin secreted by the stomach stimulates the release of somatotropin (growth
 C;Keywords: hormone; lipoprotein; stomach
 F;1-23/Domain: signal sequence #status predicted <SIG>
 F;24-51/Domain: ghrelin #status predicted <MAT>
 F;26/Binding site: octanoate (Ser) (covalent) #status experimental <CYP>
 Query Match 25.5%; Score 158; DB 1; Length 117;
 Best Local Similarity 40.0%; Pred. No. 2.6e-09;
 Matches 42; Conservative 7; Mismatches 34; Indels 22; Gaps 2;
 Qy 1 MPSPGTVCVCLLGLMLWLDLAMAGSSFLSPHEORVQVRPPIKAPHVVPALPSNOLCDLE 60
 Db 1 MSSATICSLLLSLMLWMDMAMAGSSFLSPHEQHQAKQRKESKKEP-----PAKLQPRALE 54
 Qy 61 QQRH-----LWAVFSQSTKSDSPLTVSGRTMG 89
 Db 55 GWLHLPEDRGSQEEAEEELBIRFNAPPDVGIKLSGAQYQOQHRAIG 99

RESULT 3

regulator of nucleoside diphosphate kinase rnk [imported] - Yersinia pestis (strain cco92)
 C;Species: Yersinia pestis
 C;Date: 02-Nov-2001 #sequence_revision 02-Nov-2001 #text_change 09-Jul-2004
 C;Accession: AG0449
 R;Parkhill, J.; Wren, B.W.; Thomson, N.R.; Titball, R.W.; Holden, M.T.G.; Prentice, M.B.
 den-Poorter-Tarraza, M.; Chillingworth, T.; Cronin, J.; Stevens, R.M.; Davis, P.; Dougan, G.;
 ill, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Whitehead, S.; Barrell, B.;
 Nature 413, 523-527, 2001
 A;Title: Genome sequence of *Yersinia pestis*, the causative agent of plague.
 A;Reference number: AB0001; MUID:21470413; PMID:11563360

A;Accession: AG0449
 A;Status: preliminary
 A;Molecule type: DNA
 A;Residues: 1-136 <KUR>
 A;Cross-references: UNIPROT:Q8ZAU1; GB:AL590842; PIDN:CAC93163.1; PID:g15981613; GSPDB:G
 C;Genetics:
 A;Gene: rnk

Query Match 12.6%; Score 78; DB 2; Length 136;
 Best Local Similarity 26.2%; Pred. No. 0.65%; Mismatches 39; Indels 26; Gaps 3;
 Matches 28; Conservative 14; Mismatches 39; Indels 26; Gaps 3;

Qy 21 AMAGS--SFLSPHEORVQVRPPIKAPHVVPALPSNOLCDLE-QQRLHWAISVFSQSTD 76
 Db 24 AFAGSVVATTAINEEELDRAEILPPKPIAPDVTMNSRVFELDINQEEHIRTLYVPAKLKD 83
 Qy 77 SGSDLTV-----SGRTWGLRVNLFPPS 101
 Db 84 SNEQLSVMAPLGALLGHVNDETSWKLPQGDDETRITVLLYQES 130

RESULT 4

T34774 hypothetical protein P46H5.4 - *Caenorhabditis elegans*
 A;Description: The sequence of *C. elegans* cosmid F46H5.
 A;Reference number: Z21498
 A;Accession: T34274
 R;Nhan, M.
 R;Submitted to the EMBL Data Library, November 1995
 C;Species: *Caenorhabditis elegans* revision 29-Oct-1999 #text_change 09-Jul-2004
 C;Date: 29-Oct-1999 #sequence_revision 29-Oct-1999 #text_change 09-Jul-2004
 C;Accession: T34274
 A;Status: preliminary; translated from GB/EMBL/DDBJ
 A;Molecule type: DNA
 A;Residues: 1-2018 <NHA>
 A;Cross-references: UNIPROT:Q20487; EMBL:U41543; PIDN:AAB37023.1; GSPDB:GN00028; CESP:F4
 A;Experimental source: Strain Bristol N2; clone F46H5
 C;Genetics:
 A;Gene: CESP:F46H5.4

A;Map position: X
 A;Introns: 16/2; 52/3; 87/2; 116/2; 138/2; 203/1; 265/3; 317/2; 337/3; 378/1; 428/1; 482/7; 1491/3; 1560/2; 1632/2; 1753/3; 1830/2; 1862/2; 1927/3
 Query Match 11.9%; Score 73.5%; DB 2; Length 2018;
 Best Local Similarity 31.2%; Pred. No. 38; Mismatches 31; Indels 17; Gaps 4;
 Matches 25; Conservative 7; Mismatches 7;
 Qy 38 RPPHKAHWPVPLPSNQLCDPLQQRHLWASVFSQSTDQSDSLTVS--GRTWGLRVLN 95
 Db 652 RTPHFTDEIKUSLP----CDLNDGHHLFLTYVH1SCKEGDSSTSPEGYTW----- 699
 Qy 96 LFP--PSSRRSRSHQSC 113
 Db 700 -LPLYRNQKLRSGNPNFHLPVC 718

RESULT 5

J4335 anti-mullerian hormone type II receptor precursor - human
 C;Species: Homo sapiens (man)
 C;Date: 06-Dec-1995 #sequence_revision 08-Feb-1996 #text_change 16-Aug-2004
 C;Accession: JC4335
 R;Visser, J.A.; McCluskey, A.; van Beers, T.; Weghuis, D.O.; van Kessel, A.G.; Grootenhuis, B.J.C.; Bichem, B.; Blokhs, Res. Commun. 215, 1029-1036, 1995
 A;Title: Structure and chromosomal localization of the human anti-mullerian hormone type
 C;Comment: This is a receptor for anti-mullerian hormone (see PIR:WFHM). It plays a crit
 A;Reference number: JC4335; MUID:96028015; PMID:7488027
 A;Gene: GDB:AMHR2
 A;Molecule type: mRNA
 A;Residues: 1-573
 A;Cross-references: GDB:696210; OMIM:600956
 A;Map position: 12q13-12q13
 A;Introns: 16/3; 77/3; 141/3; 167/3; 207/2; 284/2; 322/3; 380/2; 429/3; 475/2
 C;Superfamily: protein kinase homology
 C;Keywords: ATP; hormone receptor; transmembrane protein
 F;1-16/Domain: signal sequence #status predicted <SIG>
 F;17-573/Domain: anti-mullerian hormone type II receptor #status predicted <SIG>
 F;17-141/Domain: extracellular hormone binding #status predicted <ELB>
 F;142-167/Domain: transmembrane #status predicted <TM>
 F;201-512/Domain: protein kinase homology <KIN>

Query Match 11.8%; Score 73; DB 2; Length 573;
 Best Local Similarity 27.4%; Pred. No. 11; Mismatches 35; Indels 40; Gaps 6;
 Matches 34; Conservative 15; Mismatches 35; Indels 40; Gaps 6;

Qy 3 SPGTIVCS-----LILLGMWLDLAMAGS--SESPHEORVQVRP-PHKAP 44
 Db 128 SPGPSPGCGPQAARGESIWMALVTLGLFLILVLGSIIALLQKNRVRGEPPVPPRP 187
 Qy 45 H-----VVPALPLSNOLCDLQQRHWAISVFSQSTDQSDSLTVSQRWTGLVLRNL 97
 Db 188 DSGRDWSVFLQELP---ELC-----FSQVIREGGHAWVWAGQLOQKLVATKAF 232
 Qy 98 PPSS 101
 Db 233 PPSS 236

RESULT 6

E64211 virulence-associated protein vacB homolog - Mycoplasma genitalium
 C;Species: Mycoplasma genitalium
 C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004
 C;Accession: E64211
 R;Fraser, C.M.; Gocayne, J.D.; White, O.; Adams, M.D.; Clayton, R.A.; Fleischmann, R.D.;
 M.; Fuhrmann, J.; Nguyen, D.; Utterback, T.R.; Saudek, D.M.; Phillips, C.A.; Merrick, J.M.;
 C.A.; Venter, J.C.
 A;Title: The minimal gene complement of Mycoplasma genitalium.

A; Reference number: A64200; MUID:96026346; PMID:7569993
A; Accession: E64211
A; Status: preliminary; nucleic acid sequence not shown; translation not shown
A; Molecule type: DNA
A; Residues: 1-725 <TIGR>
A; Experimental source: UNIPROT:P47350; GB:U39690; GB:L43967; NID:91045782; PIDN:91045783; TI: C; Genetics:
C; Superfamily: virulence-associated protein vacB homolog
Query Match 11.8%; Score 73; DB 1; Length 725;
Best Local Similarity 25.7%; Pred. No. 14; Matches 26; Conservative 16; Mismatches 39; Indels 20; Gaps 3;
Matches 26; Conservative 16; Mismatches 39; Indels 20; Gaps 3;
QY 18 IDLAMAGSSFSPEHORVQVRPHKAP-----HVPAFL--LSNQLCDLEQRLHMASVFSQSTKDGSF----- 32; Conservative 11; Mismatches 42; Indels 34; Gaps 5;
Db 298 LVVATADVAVYVNRSEIDAEAKHNSIVPGRHVYVPMERQISNQCSNPRAKRVV 32; Conservative 11; Mismatches 42; Indels 34; Gaps 5;
Db 358 VCB1SFDNQGRIK-----NKLYPTTILSKNRFSY 387
RESULT 7
H83043 hypothetical protein PA4822 [imported] - Pseudomonas aeruginosa (strain PA01)
C; Species: Pseudomonas aeruginosa
C; Accession: H83043
C; Date: 15-Sep-2000 #sequence_revision 15-Sep-2000 #text_change 09-Jul-2004
C; Accession: H83043
R; Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warrener, P.; Hickey, M.J.; Brachman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Larbig, K.; Lim, J.; Lory, S.; Olson, M.V.
Nature 406, 959-964, 2000
A; Title: Complete genome sequence of Pseudomonas aeruginosa PA01, an opportunistic pathogen
A; Reference number: A89500; MUID:20437337; PMID:1098043
A; Accession: H83043
A; Status: preliminary
A; Molecule type: DNA
A; Residues: 1-555 <STO>
A; Cross-references: UNIPROT:O8HUYB; GB:AE004895; GB:AB004091; NID:99951083; PIDN:AAG0820
A; Experimental source: strain PA01
C; Genetics:
A; Gene: PA4822
Query Match 11.7%; Score 72.5; DB 2; Length 555;
Best Local Similarity 31.3%; Pred. No. 12; Matches 31; Conservative 9; Mismatches 34; Indels 25; Gaps 4;
Db 420 SILLGMLWIDLAMAGSSFSPEHORVQVRPHKAPHVVPALPLSNQLCDEQRLHMASVFSQSTKDGSF----- 459
QY 69 VFSQSTKDSSDLTVSGRTWGLRVNLRFPSSRSRR 107
Db 460 AFLREDLDAALRLVAR-----KKLLQLEADASRERFRR 493
RESULT 8
T22943 hypothetical protein F5QQ11.3 - Caenorhabditis elegans
C; Species: Caenorhabditis elegans
C; Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C; Accession: T22943
R; Percy, C.
submit to the ENBL Data Library, October 1996
A; Reference number: Z19640
A; Accession: T22943
A; Status: preliminary; translated from GB/EMBL/DBJ
A; Molecule type: DNA
A; Residues: 1-666 <WIL>
A; Cross-references: UNIPROT:P90898; EMBL:Z81094; PIDN:CAB03154.1; GSPDB:GN00023; CBSP:PE
A; Experimental source: clone F58G11.

C; Genetics:
A; Gene: CESP:P58G11.3
A; Map Position: 5
A; Introns: 42/2; 82/2; 153/3; 274/3; 380/1; 569/3; 613/3
Query Match 11.6%; Score 72; DB 2; Length 666;
Best Local Similarity 26.9%; Pred. No. 16; Matches 32; Conservative 11; Mismatches 42; Indels 34; Gaps 5;
Db 537 QVRVNPNQVKKVYPVRTGQALAEVRQEQTEQEANEQPPSPSRIGMSSHAA 596
QY 81 LTVSGRTWGLRVNLRFPSSRSRR-----RERSR---RSHQPSCSPEL 117
Db 597 SNVSDDGWAQVQVKVEKSPPKPFVLLPPMSKAGVKIRPRSRVVLCHSASSFPPL 655
RESULT 9
I48882 thyrotropin receptor precursor - mouse
N; Alternate names: thyroid-stimulating hormone receptor; TSH receptor
C; Species: Mus musculus (house mouse)
C; Date: 15-Mar-1996 #sequence_revision 15-Mar-1996 #text_change 09-Jul-2004
C; Accession: I48882
R; Stein, S.A.; Oates, E.L.; Hall, C.R.; Grumbles, R.M.; Fernandez, L.M.; Taylor, N.A.; Pfeifer, M.; Endocrinol. 8, 129-138, 1994
A; Title: Identification of a point mutation in the thyrotropin receptor of the hyt/hyt mouse
A; Reference number: A54271; MUID:94224232; PMID:8170469
A; Accession: I48882
A; Status: preliminary
A; Molecule type: mRNA
A; Residues: 1-764 <RES>
A; Cross-references: UNIPROT:P47750; EMBL:U02602; NID:9575923; PIDN:AAB60455.1; PID:95759
C; Genetics:
A; Gene: TSHR
C; Superfamily: glycoprotein hormone receptor; leucine-rich alpha-2-glycoprotein repeat domain
C; Keywords: G protein-coupled receptor; transmembrane protein
F; 53-76: Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR1>
F; 77-101: Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR2>
F; 102-126: Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR3>
F; 127-151: Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR4>
F; 152-176: Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR5>
F; 177-200: Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR6>
F; 201-226: Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR7>
Query Match 11.5%; Score 71.5; DB 2; Length 764;
Best Local Similarity 28.8%; Pred. No. 21; Matches 32; Conservative 16; Mismatches 50; Indels 13; Gaps 4;
Db 3 PGSL---LILVLLILALSRSURKGKECASPCCEHQDDFRVTCRKLHRISLPPSTQTKL 60
QY 61 QQ---RHLWIASVFSOSTKDSSDLTVSGRTWGLRVNLRFPSSRSRR 109
Db 61 ETHIKTIPSFLAFSSLNPNSRIVLSDA-----FLQRLEPHSFNTLSKWT 105
RESULT 10
S77905 Lyase - Pseudomonas pseudomallei
C; Species: Pseudomonas pseudomallei
C; Date: 21-Apr-1997 #sequence_revision 18-Jul-1997 #text_change 09-Jul-2004
C; Accession: S77905; S36445; S36446
R; Penalosa-Vazquez, A.; Mena, G.L.; Herrera-Estrella, L.; Bailey, A.M.
Appl. Environ. Microbiol. 61, 588-543, 1995
A; Title: Cloning and sequencing of the genes involved in glycoposphate utilization by Pseu
A; Reference number: S77905; MUID:96031567; PMID:7574593
A; Accession: S77905
A; Molecule type: DNA
A; Residues: 1-309 <PEN>
A; Cross-references: UNIPROT:Q52502; EMBL:X74325; NID:9439726; PIDN:CAA52373.1; PID:94397

A: Experimental source: strain 22
 C: Genetics:
 A: Gene: glpB
 C: Superfamily: Pseudomonas pseudomallei lyase

Query Match 11.4%; Score 70.5; DB 2; Length 309;
 Best Local Similarity 22.0%; Pred. No. 9.8; Mismatches 36; Indels 51; Gaps 5;
 Matches 29; Conservative 16; MisMatches 36; Indels 51; Gaps 5;

Oy 2 PSPGTVCSLLLIGMLWLIDLAMAGSSFLPEHQVRQVRPHKAPH-----VPPALPLS 53
 Db 14 PEGIV-----LSSVHKSRRGRFPQKAAYLARNKYSPIVADPRA 53

Oy 54 NQLCDELQDRHLWASVESOSTKQSGSDLT-----VSRTWGL---RVTNRFFP 98
 Db 54 PQ-----HSWGNRSVDAADRGGSTKTRNPNSRREEVVICMSKSNVNHEPRILNSOFA 105

Oy 99 PSSRRRSRSHQ 110
 Db 106 RKSLSNAKPFSHR 117

RESULT 11

AS6084 interleukin-1beta converting enzyme beta isozyme - human

C:Species: Homo sapiens (man)

C:Accession: AS6084

R:Alnemri, E.S.; Fernandes-Alnemri, T.; Litwack, G.
 J. Biol. Chem. 270, 4312-4317, 1995

A:Title: Cloning and expression of four novel isoforms of human interleukin-1beta converting enzyme

A:Reference number: AS6084; MUID:95181414; PMID:7876192

A:Accession: AS6084

A:Status: preliminary

A:Molecule type: mRNA

A:Residues: 1-383 <ALN>

A:Cross-references: UNIPROT:P29466; GB:U1697; NID:9717039; PIDN: AAC50107.1; PID:9717040

C:Gene: IL1BCE

C:Keywords: alternative splicing

Query Match 11.4%; Score 70.5; DB 2; Length 383;
 Best Local Similarity 22.0%; Pred. No. 12; Mismatches 37; Indels 39; Gaps 4;
 Matches 27; Conservative 20; MisMatches 37; Indels 39; Gaps 4;

Oy 1 MPSPGTVCSLLLIGMLWLIDLAMAGSSFLPEHQVRQVRPHKAPHVVPALPLS----- 54
 Db 62 IPKGMAQACQICITYICEEDSYLAGTLGISAPOQWDN-----PAMPTSSGSEGKV 112

Oy 55 QLCDEEQQRHLW---ASFSQSQTKDS-----GSDLTVSGRTWGL 90
 Db 113 KLCSELEAQRIWKOKSAEYIPMDKSSRTRIALITCNEERDSIPIRRTGAEVDTGTMUL 172

Oy 91 RVL 93
 Db ;
 Db 173 QNL 175

RESULT 12

H6792 unknown protein F14G6.10 [imported] - Arabidopsis thaliana

C:Species: Arabidopsis thaliana (mouse-ear cress)

C:Accession: H6792

R:Theologis, A.; Ecker, J.R.; Palm, C.J.; Federer, N.A.; Kaul, S.; White, O.; Alonso, C.; Chin, C.W.; Chung, M.K.; Conn, L.; Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dewar, K.; Hansen, N.F.; Hughes, B.; Huijzer, L.
 Nature 408, 816-820, 2000

A:Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; Kim, C.; Li, J.H.; Li, Y.; Lin, X.; Liu, S.X.; Liu, Z.A.; Luces, J.S.; Maiti, R.; Marzali, R.; Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.

A:Authors: Salzberg, S.L.; Schwarz, J.R.; Shim, P.; Southwick, A.M.; Sun, H.; Tallon, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.

C:Accession: 02-Mar-2001 #sequence_revision 02-Mar-2001 #text_change 09-Jul-2004

A;**Title:** Sequence and analysis of chromosome 1 of the plant *Arabidopsis*.
 A;**Reference number:** A86141; MUID:21016719; PMID:11130712
 A;**Accession:** H96792
 A;**Status:** preliminary
 A;**Molecule type:** DNA
 A;**Residues:** 1-302 <STO>
 A;**Cross-references:** UNIPROT:Q9C9K7; GB:AE005173; NID:96642668; PIDN:AAF20248.1; GSPDB:GN
 C;**Genetics:**
 A;**Gene:** PL4G5.10
 A;**Map position:** 1
 C;**Superfamily:** *Arabidopsis thaliana* hypothetical protein T12H17.200

Query Match	Best Local Similarity	Score	DB	Length	
Qy	30	PE-HQRVQRRPP-IKA PHEHQVQRRPP-IKA PELHQLOPOPOQHLPQ PELHQLOPOPOQHLPQ	11.1%; 31.6%;	69; 31;	DB 2; Length 302;
Db	21	PALPSNSQICDLEGORH PALPSNSQICDLEGORH PQOPQOPQQNSDDE----- PQOPQOPQQNSDDE-----			
Qy	88	WGLRVLNRLFPPSSRSR WGLRVLNRLFPPSSRSR -----RSH			87
Db	70	-----RSH 109 -----RSH 109 SNSNKDOPGSDPVTSGST			70
71	-GKPRRGR - PPGSKNPKRPPVTPRDSPVNLASH				

T32425 hypothetical protein C10E2.3 - *Caenorhabditis elegans*
 C-Species: *Caenorhabditis elegans* revision
 C-Date: 29-Oct-1999 #sequence_change 09-Jul-2004
 C-Accession: T32425
 R-Wohldmann, P.; Sansone, J.
 submitted to the EMBL Data Library, September 1997
 A-Description: The sequence of *C. elegans* cosmid C10E2.
 A-Reference number: Z21165
 A-Accession: T32425
 A>Status: preliminary; translated from GB/EMBL/DBJ
 A-Molecule type: DNA
 A-Residues: 1-796 <W0H>
 A-Cross-references: UNIPROT:O17323; EMBL:AF026202; PIDN:AAB71243.1; GSPDB:GN0028; CESP:
 A-Experimental source: strain Bristol N2; clone C10E2
 C-Genetics:
 A-Map position: X
 A; Introns: 85/2; 220/2; 269/1; 305/1; 519/3; 576/3; 724/3; 755/3.
 Query Match 11 0%; Score 68; DB 2; Length 796;
 Best Local Similarity 28 6%; Pred. No. 51; Mismatches 35; Indels 20; Gaps 4;
 Matches 28; Conservative 15; MisMatches 35; Indels 20; Gaps 4;
 Qy 18 LDLMAMAGSSFLSPENQVQY-RPPRKAQPHVVPALPLSNQLCDLEQORHLWASVFQSSTKD 76
 Db 47 ISLISNLNLSSKGNLSPQTPKHH-PTAPTSNRKCDLPRNS--STTISQTLKD 101
 Qy 77 SGSDLTIVSGLRTWGLVLRNLFPPSSRSRSRSRSRSQSCS 114
 Db 102 -----RLKNMIIANRSKGESENQSNLMSNS 125

RESULT 15
 B85188 retrotransposon like protein [imported] - *Arabidopsis thaliana*
 C-Species: *Arabidopsis thaliana* (mouse-ear cress)
 C-Date: 16-Feb-2001 #sequence_revision 16-Feb-2001 #text_change 09-Jul-2004
 C-Accession: B85188
 R-anonymous, The European Union *Arabidopsis* Genome Sequencing Consortium, The Cold Spring
 Nature 402, 769-777, 1999
 A-Title: Sequence and analysis of chromosome 4 of the plant *Arabidopsis thaliana*.
 A-Reference number: A85001; MUID:20083488; PMID:10617198
 A-Accession: B85188
 A-Status: preliminary
 A-Molecule type: DNA
 A-Residues: 1-1474 <STO>
 A-Cross-references: UNIPROT:O23529; GB_NC_001268; NID:95302802; PIDN:CAB46043.1; GSPDB:
 C-Genetics:
 A-Gene: d1465c
 A-Map position: 4
 C-Superfamily: retrovirus-related polypeptide

Query Match 11 0%; Score 68; DB 2; Length 1474;
 Best Local Similarity 27.0%; Pred. No. 1e+02;
 Matches 30; Conservative 19; Mismatches 42; Indels 20; Gaps 5;

Qy 16 LWLDLAMAGSSFL-SPEHQHQVQTRPPPHQPHVW--PALPLSNQLCDLEQORHLWASVF 70
 Db 716 VFLGQSLITQPAVILCQDVERHQL---YTSRHWVDEASPPSN---LTQNSLRTVTF 766
 Qy 71 SQSTD-----SGDLTIVSGLRTWGLVLRNLFPPSSRSRSRSRSQSCS 115
 Db 767 BOSSPLVTPILSSSVLSPCLISSCTVHQQQPPVTPMSPHSOSPTSP 817

Search completed: July 26, 2005, 14:30:05
Job time : 42 secs

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Om protein - protein search, using sw model

Run on: July 26, 2005, 14:10:22 ; Search time 179 Seconds
 (without alignments)
 334.711 Million cell updates/sec

Title: US-10-659-782B-32

Sequence: 1 MPSGTVCSLLIGMLWLQL..... PPSSRRRSRSHQPSCSPEL 117

Scoring table: BLOSUM62
 Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0
 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : UniProt 03; *
 1: uniprot_sprot: *
 2: uniprot_trembl: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Length	DB	ID	Description
1	198	31.9	91	2	Q86YP8	Q86YP8 homo sapien
2	198	31.9	117	1	QHRL_HUMAN	Q9ubu3 homo sapien
3	194	31.3	117	2	Q6UDB7	Q6ude7 macaca mulatta
4	180	29.0	117	1	QHRL_FELCA	Q6beg6 felis silvestris
5	171.5	27.7	116	1	QHRL_CAPII	Q6beg7 capra hircus
6	171.5	26.6	117	2	Q8Ch53	Q8ch53 meriones unicolor
7	163	26.3	117	1	QHRL_MOUSE	Q9eqx0 mus musculus
8	162	26.1	86	2	Q81IT4	Q81It4 mus musculus
9	162	26.1	117	1	QHRL_CANFA	Q9Pef8 canis familiaris
10	158.5	25.6	78	2	Q71SD1	Q7rsdi mus musculus
11	158	25.5	117	1	QHRL_RAT	Q9gyh7 rattus norvegicus
12	157.5	25.4	116	2	Q863I0	Q863I0 ovis aries
13	150.5	24.3	74	2	Q67BB5	Q67bb5 sus scrofa
14	150.5	24.3	118	1	QHRL_PIG	Q9ky5 sus scrofa
15	147	23.7	54	2	Q6S1J1	Q6al91 capra hircus
16	146	23.5	54	2	Q6S1F6	Q6al16 cervus elaphus
17	145.5	23.5	116	1	QHRL_BOVIN	Q9pdU3; Q8Taq9; Q9H3R3;
18	145	23.4	52	2	Q6S1F9	Q6al19 bovis taurus
19	145	23.4	54	2	Q6S1F2	Q6al12 odocoileus virginianus
20	145	23.4	54	2	Q6S1F8	Q6al18 rangifer tarandus
21	142	22.9	54	2	Q6S1F4	Q6al1f alces alces
22	135.5	21.9	65	2	Q6TGF0	Q6rgfo sus scrofa
23	133	21.5	54	2	Q6S1G3	Q6al93 ovis aries
24	130	21.0	54	2	Q6S1C2	Q6spcc2 bisons bison
25	122.5	19.8	54	2	Q6S1G5	Q6al95 kogia brevirostris
26	122.5	19.8	54	2	Q6S1G7	Q6al97 bos taurus
27	113.5	18.3	97	2	Q6S1C6	Q863C6 ovis aries
28	101	16.3	35	2	Q6SPC3	Q6spc3 antilocapra
29	98.5	15.9	116	2	Q6VMW7	Q6vnj7 answer sp. (trachemys scripta)
30	95	15.3	114	2	Q6R4B4	Q6f4b4 trachemys scripta
31	95	15.3	124	2	Q6F4B3	Q6f4b3 trachemys scripta

RESULT 1

Q86YP8	PRELIMINARY;	PRT;	91 AA.
ID Q86YP8;			
AC Q86YP8;			
DT 01-JUN-2003 (TREMBREL_24, Created)			
DT 01-OCT-2003 (TREMBREL_25, Last sequence update)			
DB EXON_3-deleted preproghrelin variant.			
OS Homo sapiens (Human).			
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
OX NCBI_TaxId=9606;			
RN [1]			
RP SEQUENCE FROM N.A.			
RA Jeffery P.L.; Herington A.C.; Chopin L.K.;			
RL Submitted (Nov-2002) to the EMBL/GenBank/DBJ databases.			
DR EML1; AV184207; BA027511; -; -.			
DR GO; GO:0005576; C:extracellular; IEA.			
DR GO; GO:0016608; F:growth hormone-releasing hormone activity; IEA.			
DR InterPro; IPR006738; motilin ghrelin.			
DR InterPro; IPR011070; Alphabeta subunit.			
DR InterPro; IPR006744; preproghrelin.			
DR PRINTS; PR01624; GHRELIN.			
DR SQ SEQUENCE 91 AA; 972 MW; E7E532D3A3FB609 CRC64;			
Query Match 31.9%; Score 198; DB 2; Length 91; Best Local Similarity 88.6%; Pred. No. 1.4e-12; Mismatches 5; Indels 0; Gaps 0;			
Matches 39; Conservative: 0; Satisfactory: 0; Qy 1 MPSGTVCSLLIGMLWLQL..... PPSSRRRSRSHQPSCSPEL 44			
Db 1 MPSGTVCSLLIGMLWLQLAMAGSSFLSPERQVQRPHKAP 44			

RESULT 2

GHRHL_HUMAN STANDARD; PRT; 117 AA.		
ID GHRHL_HUMAN		
AC Q9PDU3; Q8Taq9; Q9H3R3;		
DT 28-FEB-2003 (Rel. 41, Created)		
DT 28-FEB-2003 (Rel. 41, Last sequence update)		
DT 28-JUL-2005 (Rel. 46, Last annotation update)		
DE Ghrelin precursor (Growth hormone secretagogue) (Growth hormone releasing peptide) (Motilin-related peptide) (M46 protein) (UNQ524; PRO066).		
DE Name_GHRL_Synonyms=MILRP;		
OS Homo sapiens (Human).		
OC Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
OX NCBI_TaxId=9606;		
RN [1]		
RP SEQUENCE FROM N.A. (ISOFORM 1), AND ACYLATION OF SER-26. MEDLINE=20067959; Pubmed=16064470; DOI=10.1038/45230; RX		

RESULT 3

ID 06DE7	PRELIMINARY;	PRT; 117 AA.
AC 05DE7;	(TREMBLrel. 27, Created)	
DT 05-JUL-2004	(TREMBLrel. 27, Last sequence update)	
DT 05-JUL-2004	(TREMBLrel. 27, Last annotation update)	
DE Ghrelin.		
GN Name=GHRH;		
OS Macaca mulatta (Rhesus macaque).		
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;		
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopitheciidae;		
OC Cercopithecinae; Macaca.		
OX NCBI_TaxID=9544;		
RN [1] SEQUENCE FROM N.A.		
RP RX	Published=4736731; DOI=10.1210/en.2003-1103;	
RA Angeloni S.V., Glynn N., Ambrosini G., Garant M.J., Dee Higley J.,		
RA Sogni S., Hansen B.C.,	'Characterization of the rhesus monkey ghrelin gene and factors influencing ghrelin gene expression and fasting plasma levels.'	
RT Endocrinology, 145:2197-2205(2004).		
RL EMBL; AY372274; AK074837.1; -.		
DR EMBL; AY372274; AK074837.1; -.		
DR GO; GO:0005576; C-extacellular; IEA.		
DR GO; GO:0016608; F-growth hormone releasing hormone activity; IEA.		
DR GO; GO:0050791; P-regulation of physiological process; IEA.		
DR InterPro; IPR006737; AlphaBeta subunit.		
DR InterPro; IPR006737; motilin assoc.		
DR InterPro; IPR006738; motilin ghrelin.		
DR Pfam; PF04643; Motilin_assoc; 1.		
DR Pfam; PF04644; Motilin_ghrelin; 1.		
DR PRINTS; PR0124; GHRELIN.		
DR PRODOM; PD332162; Preproghrelin; 1.		
DR SEQUENCE 117 AA; 12913 MW; 1B634ACE1E1F19FF CRC64;		

Query Match 31.3%; Score 194; DB 2; Length 117; Best Local Similarity 86.4%; Pred. No. 4.9e-12; Matches 38; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

RESULT 4

QY 1 MPSPGTVCSILLGLGMWLIDLAMAGSSFSPLSPHHORVQVRPHKAP 44	DR 1 MPSPGTVCSILLGLGMWLIDLAMAGSSFSPLSPHHORVQVRPHKAP 44
--------------------------------------------------------	--------------------------------------------------------

Query Match 29.0%; Score 180; DB 1; Length 117; Best Local Similarity 79.5%; Pred. No. 1.3e-10; Matches 35; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

RESULT 5

QY 1 MPSPGTVCSILLGLGMWLIDLAMAGSSFSPLSPHHORVQVRPHKAP 44	DR 1 MPSPGTVCSILLGLGMWLIDLAMAGSSFSPLSPHHORVQVRPHKAP 44
--------------------------------------------------------	--------------------------------------------------------

Query Match 29.0%; Score 180; DB 1; Length 117; Best Local Similarity 79.5%; Pred. No. 1.3e-10; Matches 35; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

RESULT 4

GHRL_FELCA	STANDARD;	PRT; 117 AA.
AC Q6BBG6;	Q6BBG7;	
DT 25-OCT-2004 (Rel. 45, Created)	25-OCT-2004 (Rel. 45, Last sequence update)	
DT 25-OCT-2004 (Rel. 45, Last sequence update)	25-OCT-2004 (Rel. 45, Last annotation update)	
DT 25-OCT-2004 (Rel. 45, last annotation update)	25-OCT-2004 (Rel. 45, last annotation update)	
DE Ghrelin precursor (Growth hormone secretagogue) (Growth hormone releasing peptide) (Motilin-related peptide).	DE Ghrelin precursor (Growth hormone secretagogue) (Growth hormone releasing peptide) (Motilin-related peptide).	
GN Name=GHRH;	Name=GHRH;	
OS Capra hircus (Goat)	OS Capra hircus (Goat)	
OC Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Carnivora; Felidae; Felis silvestris catus (Cat); Mammalia; Butheria; Carnivora; Fissipedia; Felidae; Felis.	OC Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Carnivora; Felidae; Felis silvestris catus (Cat); Mammalia; Butheria; Carnivora; Fissipedia; Felidae; Felis.	
OX NCBI_TaxID=9925;	OX NCBI_TaxID=9925;	
RN [1]	RN [1]	
RP SEQUENCE FROM N.A.	RP SEQUENCE FROM N.A.	
RC TISSUE=Stomach;	RC TISSUE=Stomach;	
RA Lin X., Miyazato M., Kaya H., Ida T., Kangawa K.;	RA Lin X., Miyazato M., Kaya H., Ida T., Kangawa K.;	
RT "cDNA cloning of feline and caprine ghrelin";	RT "cDNA cloning of feline and caprine ghrelin";	
RL Submitted (JUL-2002) to the EMBL/GenBank/DBJ databases.	RL Submitted (JUL-2002) to the EMBL/GenBank/DBJ databases.	
CC -!- FUNCTION: Specific ligand for the growth hormone secretagogue receptor type 1 (GHSR) inducing the release of growth hormone from the pituitary. Has an appetite-stimulating effect, induces adiposity and stimulates gastric acid secretion. Involved in growth regulation (By similarity).	CC -!- FUNCTION: Specific ligand for the growth hormone secretagogue receptor type 1 (GHSR) inducing the release of growth hormone from the pituitary. Has an appetite-stimulating effect, induces adiposity and stimulates gastric acid secretion. Involved in growth regulation (By similarity).	
CC -!- SIMILARITY: Belongs to the motilin family.	CC -!- SIMILARITY: Belongs to the motilin family.	
CC This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its	CC This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its	

-!- SUBCELLULAR LOCATION: Secreted.

-!- ALTERNATIVE PRODUCTS:

Event=Alternative splicing; Named isoforms=2;

Name=1; Synonyms=Ghrelin;

CC Isoform-Q6BBG6-1; Sequence=VSP_011626;

CC Isoform-Q6BBG6-2; Sequence=VSP_011627;

-!- PTM: O-n-octanoylation is essential for activity (By similarity).

-!- SIMILARITY: Belongs to the motilin family.

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CC DR EMBL; AB089201; BAD34670.1; -.

DR EMBL; AB089202; BAD34671.1; -.

DR PRODOM; PD332162; Preproghrelin; 1.

KW Alternative splicing; Cleavage on pair of basic residues; Hormone; Lipoprotein; Signal.

FT SIGNAL 23 By similarity.

FT PEPTIDE 24 - 51 Ghrelin (By similarity).

FT PROPEP 52 - 117 Removed in mature form (By similarity).

FT LIPID 26 - 26 O-octanoyl serine (By similarity).

FT VARSPLIC 37 37 Missing (in isoform 2).

FT /PRID=VSP_011626.

SQ SEQUENCE 117 AA; 12956 MW; 8235A5147FF530 CRC64;

Query Match 29.0%; Score 180; DB 1; Length 117; Best Local Similarity 79.5%; Pred. No. 1.3e-10; Matches 35; Conservative 1; Mismatches 8; Indels 0; Gaps 0;

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DR EMBL; ASN089200; BAD34669_1; -

DR ProDom; PD332162; Preproghrelin; 1.

KW Cleavage on pair of basic residues; Hormone; Lipoprotein; Signal.

FT SIGNAL 1 23 By similarity.

FT PEPTIDE 24 50 Ghrelin (By similarity).

FT PROPEP 51 116 Removed in mature form (By similarity).

FT LIPID 26 26 O-octanoyl serine (By similarity).

SQ SEQUENCE 116 AA; 12735 MW; CDA6791D172B3303 CRC64;

Query Match 27.7%; Score 171.5; DB 1; Length 116;

Best Local Similarity 42.9%; Pred. No. 9.7e-10;

Matches 42; Conservative 13; Mismatches 34; Indels 9; Gaps 2;

QY 1 MPSPOIVCSULLGMLWUDLAMAGSSFLSPREHQVQVRPHQKAPAHVVPALPSNQL-CDL 59

Db 1 MPPARTICSLULLSMUMLMAGSSFLSPHQKLPKSGRLKRALRQFDPV 60

OY 60 EQQRH-----LWASVTSQSTKDSGLTWSGGTWG 89

Db 61 GSQERGAEBLEIRFNAPNIGIKLUSGAQSLQHGOTLG 98

RESULT 6

08CH53 PRELIMINARY; PRT; 117 AA.

ID 08CH53; DT 01-MAR-2003 (TREMBREL. 23, Created)

DT 01-JUN-2003 (TREMBREL. 24, Last annotation update)

DE Ghrelin preproprotein.

OS Mammalia unguiculata (Mongolian jird) (Mongolian gerbil).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus [1]

RN RQ

RC TISSUE=Stomach;

RC MEDLINE=20389976; PubMed=10930375;

RA Tomasetto C., Kazan S.M., Ribieras S., Masson R., Lefebvre O.,

RA Staub A., Alexander G., Chevred M.-P., Rio M.-C.;

RT "Identification and characterization of a novel gastric peptide hormone: the motilin-related peptide";

RL Gastronterology 119:395-405(2000).

[2]

RN RQ

RA Kojima M., "Mouse mRNA for preproghrelin"; to the EMBL/GenBank/DBJ databases.

RT Submitted (PRC-1999) to the EMBL/GenBank/DBJ databases.

RN [3]

RP SEQUENCE FROM N.A. (ISOFORM 1)

RP SEQUENCE FROM N.A. (ISOFORM 1)

RP MEDLINE=22354683; PubMed=12466851; DOI=10.1038/nature01266;

RA Tanaka M., Hayashiya Y., Iguchi T., Nakao N., Nakai N., Nakashima K.;

RA Submitted (APR-2001) to the EMBL/GenBank/DDJB databases.

[4]

RP SEQUENCE FROM N.A. (ISOFORM 1)

RC STRAIN=C57BL/6J; TISSUE=Stomach;

RC MEDLINE=20389976; PubMed=10930375;

RA Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S.,

RA Niikido I., Osato N., Saito R., Suzuki H., Yamamoto T., Kiyosawa H.,

RA Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C., Gojobori T.,

RA Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,

RA Scrimm L.M., Kamapin A., Matsuda H., Batyalov S., Beisel K.W.,

RA Blake J.A., Brade D., Brusic V., Chothia C., Corbani L.F., Cousins S.,

RA Dalla E., Dragani T.A., Fletcher C.F., Forrest A., Frazer K.S.,

RA Gaasterland T., Garibaldi M., Giessi C., Godzik A., Gough J.,

RA Grimm S., Gustincich S., Hirokawa N., Jackson I.J., Jarvis E.D.,

RA Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,

RA Konagaya A., Kuruchkin I.V., Lee Y., Lenhard B., Lyons P.A.,

RA Maglott D.R., Maltais L., Marchlioni L., McKenzie L., Miki H.,

RA Nasashima T., Numata K., Ohido T., Pavani W.J., Perseus G., Pesole G.,

RA Petrovsky N., Pillai R., Pontius J.U., Oi D., Ramchandran S.,

RA Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,

RA Sandelin A., Schneider C., Simplicie C.A., Setou M., Shimada K.,

RA Sultana R., Takenaka Y., Taylor M.S., Teesdale R.D., Tomita M.,

RA Verardo R., Wagner L., Wahlestedt C., Wang Y., Watanabe Y., Wells C.,

RA Wimling L.G., Wimshausen Boris A., Yangqiwawa M., Yang T., Yang L.,

RA Yuan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,

RA Hirozane-Kishizawa T., Kono H., Nakamura M., Sakazume N., Sato K.,

RA Shiraki T., Waki K., Kawai J., Aizawa K., Arakawa T., Fukuda S.,

RA Hara A., Hashizume W., Imokuni K., Ishii Y., Itoh M., Kogawa I.,

RA Mizasaki A., Sakai K., Sabaki D., Shiba K., Shinagawa A.,

RA Yasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,

DR Birney E., Hayashizaki Y.; "Analysis of the mouse transcriptome based on functional annotation of

SEQUENCE 117 AA; 13035 MW; 22657697FC026A74 CRC64;

Query Match 26.6%; Score 165; DB 2; Length 117;

Best Local Similarity 41.0%; Pred. No. 4.6e-09;

Matches 43; Conservative 8; Mismatches 32; Indels 22; Gaps 2;

QY 1 MPSPOIVCSULLGMLWUDLAMAGSSFLSPREHQVQVRPHQKAPAHVVPALPSNQLCDL 60

Db 1 MPPARTICSLULLSMUMLMAGSSFLSPHQKLPKSGRLKRALRQFDPV 54

OY 61 QQRH-----LWASVTSQSTKDSGLTWSGGTWG 89

Db 55 GWLHPDGREGAEBEDELEIRFNAPFDVGKIKLUSGAQYQOHGRALG 99

CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>) or send an email to license@isb-sib.ch).

CC

CC

DR EMBL; AU298295; CAQ29155.1; -.

DR InterPro; IPR06737; motilin assoc.

DR InterPro; IPR05411; Preproghrelin.

DR Pfam; PRO4643; Motilin assoc; 1.

DR Prints; PR01624; GHRERIN.

DR ProDom; PDD32162; Preproghrelin; 1.

KW Alternative splicing; Cleavage on pair of basic residues; Hormone; Lipoprotein; Signal.

KW Lipoprotein; Signal.

FT SIGNAL 1 23 BY similarity.

FT PEPTIDE 24 51 Ghrelin (By similarity). Removed in mature form (By similarity).

FT PROPEP 52 117 O-octanoyl serine (By similarity).

FT LIPID 26 26 Missing (in isoform 2).

FT VARSPLIC 37 37 /FTID=VSP 00344.

FT SEQUENCE 117 AA; 13007 MW; 385FED9D1847CF7 CRC64;

Query Match Best Local Similarity 26.1%; Score 162; DB 1; Length 117; Matches 31; Conservative 5; Mismatches 8; Indels 0; Gaps 0; Qy 1 MPSRPGTVCSHLILGMWLDLAMAGCSSFLSPHQYVQVRPHKAP 44 1 MPSLGTMCSULLFSVLWVLDLAMAGSSFLSPHQKLQQRKESKKP 44

RESULT 10

Q7TS01 PRELIMINARY; PRT; 78 AA.

ID Q7TS01; PRELIMINARY; PRT; 78 AA.

AC Q7TS01; PRELIMINARY; PRT; 78 AA.

DT 01-OCT-2003 (Tremblel, 25, Created)

DT 01-OCT-2003 (Tremblel, 25, Last sequence update)

DT 01-MAR-2004 (Tremblel, 26, Last annotation update)

DE Ghrelin delta2.

GN Name=Ghrelin;

OS Mus musculus (Mouse);

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. NCBI_TaxID=10090;

RN [1]

RP SEQUENCE FROM N.A. (ISOFORMS 1 AND 2), SEQUENCE OF 24-51, MASS SPECTROMETRY, AND ACYLATION OF SER-26.

RN SEQUENCE FROM N.A. (ISOFORM 1), SEQUENCE OF 24-51, MASS SPECTROMETRY, AND ACTYLATION OF SER-26.

RC STRAIN=Sprague-Dawley; TISSUE=Stomach;

RX MEDLINE=20061959; PubMed=10604470; DOI=10.1038/45230; RA Kojima M.; Hosoda H.; Date Y.; Nakazato M.; Matsuo H.; Kangawa K.; RT "Ghrelin is a growth-hormone-releasing acylated peptide from stomach.,"

RN Nature 402:656-660(1999).

RN [2]

RP SEQUENCE FROM N.A. (ISOFORMS 1 AND 2), SEQUENCE OF 24-51, MASS SPECTROMETRY, AND ACYLATION OF SER-26.

RX STRAIN=Sprague-Dawley; TISSUE=Stomach;

RX MEDLINE=2035315; PubMed=10801186; DOI=10.1074/jbc.M002784200; RA Hosoda H.; Kojima M.; Matsuo H.; Kangawa K.; RT "Purification and characterization of rat des-Gln14-ghrelin, a second endogenous ligand for the growth hormone secretagogue receptor.,"

RL Biol. Chem. 275:2195-2200(2000).

RN [3]

RP CHARACTERIZATION

RX MEDLINE=2109536; PubMed=11162448; DOI=10.1006/bbrc.2000.4039; RA Kojima M.; Hosoda H.; Kangawa K.; RT "Ghrelin and des-acyl ghrelin: two major forms of rat ghrelin peptide in gastrointestinal tissue,"

RL Biochem. Biophys. Res. Commun. 279:909-913(2000).

RN [4]

RP STRUCTURE-ACTIVITY RELATIONSHIP

RX MEDLINE=21543348; PubMed=11549267; DOI=10.1006/bbrc.2001.5553; RA Matsumoto M.; Hosoda H.; Kitajima Y.; Morozumi N.; Minamitake Y.; RA Tanaka S.; Matsuo H.; Kojima M.; Hayashi Y.; Kangawa K.; RT "Structure-activity relationship of ghrelin: pharmacological study of ghrelin peptide.,"

RL Biochem. Biophys. Res. Commun. 287:142-146(2001).

RN [5]

RP REVIEW

RX MEDLINE=21203998; PubMed=11306336; DOI=10.1016/S1043-2760(00)00362-3; RA Kojima M.; Hosoda H.; Kangawa K.; RT "Ghrelin: discovery of the natural endogenous ligand for the growth hormone secretagogue receptor.,"

RL Trends Endocrinol. Metab. 12:118-122(2001).

CC -!- FUNCTION: Specific ligand for the growth hormone secretagogue receptor type 1 (GHSR) inducing the release of growth hormone from the pituitary. Has an appetite-stimulating effect, induces adiposity and stimulates gastric acid secretion. Involved in growth regulation.

CC -!- SUBCELLULAR LOCATION: Secreted.

CC -!- ALTERNATIVE PRODUCTS: Named isoforms=2;

CC Name=1; Synonyms=Ghrelin;

CC Isoform=Q9YH7-1; Sequence=displayed;

CC Name=2; Synonyms=des-Gln14-Ghrelin;

Db 1 MPPGTVCSHLILGMWLDLAMAGSSFLSPHQYVQVRPHKAPHVVPALPSNQLCDLE 60

Db 1 MLLSGCICSLILSLWMDMAMAGGSFLSPHQKQAFNAP-----FDVGIKLSGAQ 51

Qy 61 QORH-----LWASFTFSQSTDSDH 80

Qy 52 YQQHGRALGKFLQDILWEV-----KEAPAD 77

RESULT 11

CC GHR1_RAT STANDARD; PRT; 117 AA.

CC Q9YH7; Q9E69; Name=Ghrelin;

CC Name=Ghrelin;

CC DE Ghrelin precursor (Growth hormone releasing peptide) (Motilin-related Peptide).

CC Name=Ghrelin;

CC Rattus norvegicus (Rat).

CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus. NCBI TaxID=10116;

CC RN [1]

CC RP SEQUENCE FROM N.A. (ISOFORM 1), SEQUENCE OF 24-51, MASS SPECTROMETRY, AND ACTYLATION OF SER-26.

CC RC STRAIN=Sprague-Dawley; TISSUE=Stomach;

CC RX MEDLINE=20061959; PubMed=10604470; DOI=10.1038/45230; RA Kojima M.; Hosoda H.; Date Y.; Nakazato M.; Matsuo H.; Kangawa K.; RT "Ghrelin is a growth-hormone-releasing acylated peptide from stomach.,"

CC RN Nature 402:656-660(1999).

CC RN [2]

CC RP SEQUENCE FROM N.A. (ISOFORMS 1 AND 2), SEQUENCE OF 24-51, MASS SPECTROMETRY, AND ACYLATION OF SER-26.

CC RX STRAIN=Sprague-Dawley; TISSUE=Stomach;

CC RX MEDLINE=2035315; PubMed=10801186; DOI=10.1074/jbc.M002784200; RA Hosoda H.; Kojima M.; Matsuo H.; Kangawa K.; RT "Purification and characterization of rat des-Gln14-ghrelin, a second endogenous ligand for the growth hormone secretagogue receptor.,"

CC RL Biol. Chem. 275:2195-2200(2000).

CC RN [3]

CC RP CHARACTERIZATION

CC RX MEDLINE=2109536; PubMed=11162448; DOI=10.1006/bbrc.2000.4039; RA Kojima M.; Hosoda H.; Kangawa K.; RT "Ghrelin and des-acyl ghrelin: two major forms of rat ghrelin peptide in gastrointestinal tissue,"

CC RL Biochem. Biophys. Res. Commun. 279:909-913(2000).

CC RN [4]

CC RP STRUCTURE-ACTIVITY RELATIONSHIP

CC RX MEDLINE=21543348; PubMed=11549267; DOI=10.1006/bbrc.2001.5553; RA Matsumoto M.; Hosoda H.; Kitajima Y.; Morozumi N.; Minamitake Y.; RA Tanaka S.; Matsuo H.; Kojima M.; Hayashi Y.; Kangawa K.; RT "Structure-activity relationship of ghrelin: pharmacological study of ghrelin peptide.,"

CC RL Biochem. Biophys. Res. Commun. 287:142-146(2001).

CC RN [5]

CC RP REVIEW

CC RX MEDLINE=21203998; PubMed=11306336; DOI=10.1016/S1043-2760(00)00362-3; RA Kojima M.; Hosoda H.; Kangawa K.; RT "Ghrelin: discovery of the natural endogenous ligand for the growth hormone secretagogue receptor.,"

CC RL Trends Endocrinol. Metab. 12:118-122(2001).

CC -!- FUNCTION: Specific ligand for the growth hormone secretagogue receptor type 1 (GHSR) inducing the release of growth hormone from the pituitary. Has an appetite-stimulating effect, induces adiposity and stimulates gastric acid secretion. Involved in growth regulation.

CC -!- SUBCELLULAR LOCATION: Secreted.

CC -!- ALTERNATIVE PRODUCTS: Named isoforms=2;

CC Name=1; Synonyms=Ghrelin;

CC Isoform=Q9YH7-1; Sequence=displayed;

CC Name=2; Synonyms=des-Gln14-Ghrelin;

CC -!- TISSUE SPECIFICITY: Broadly expressed with higher expression in the stomach. Very low levels are detected in the hypothalamus, heart, lung, pancreas, intestine and adipose tissue. The replacement of Ser-26 by aromatic tryptophan preserves Ghrelin activity.

CC -!- MASS SPECTROMETRY: MW=314.9; MW_BRR=0.7; METHOD=Electrospray; RANGE=24-51 (Q9YH7-1); NOTE=Ref.1.

CC -!- MASS SPECTROMETRY: MW=3187.1; MW_BRR=0.6; METHOD=Electrospray; RANGE=24-50 (Q9YH7-2); NOTE=Ref.2.

CC	KW	Signal.
CC	FT	SIGNAL
CC	FT	CHAIN
CC	SQ	SEQUENCE
CC	116 AA;	1
CC	50	23
CC	għrelin.	Potential.
CC	12977 MW;	B78C43DBF0B568E CRC64;
CC	use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (see http://www.isb-sib.ch/announce/) or send an email to license@isb-sib.ch).	
CC	DR	EMBL; AB029433; BAB893700.1; -.
CC	DR	EMBL; AB035699; BAB11956.1; -.
CC	DR	PIR; B59316; B59316.
CC	DR	InterPro; IPR06737; motilin assoc.
CC	DR	InterPro; IPR06738; motilin_għrelin.
CC	DR	InterPro; IPR005441; Preproghrelin.
CC	DR	Pfam; PP04643; Motilin assoc; 1.
CC	DR	PRINTS; PR01624; GHRELIŃ.
CC	DR	ProDom; PD312162; Preproghrelin; 1.
CC	KW	Alternative splicing; Cleavage on pair of basic residues;
CC	FT	Direct protein sequencing; Hormone; Lipoprotein; Signal.
CC	FT	SIGNAL
CC	1	23
CC	FT	PEPTIDE
CC	24	51
CC	FT	Għrelin.
CC	52	117
CC	FT	Removed in mature form.
CC	26	26
CC	FT	O-octanoyl serine.
CC	37	37
CC	FT	Missing (in isoform 2).
CC	SQ	/FTaa:VSP 03448.
RESULT 12	Query Match	25.5%; Score 158; DB 1; Length 117;
0863L0	Best Local Similarity	40.0%; Pred. No. 2.4e-08;
0863L0	Matches	42; Conservative 7; Mismatches 34; Indels 22; Gaps 2;
AC	ID	067BB5
QY	AC	067BB5
Db	AC	067BB5;
QY	DT	25-OCT-2004 (TREMBLrel. 28, Created)
Db	DT	25-OCT-2004 (TREMBLrel. 28, Last sequence update)
QY	DT	25-OCT-2004 (TREMBLrel. 28, Last annotation update)
Db	DE	Għrelin (Fragment).
QY	DR	Sub scrofa (Pig).
Db	OS	Eukaryota; Metazoa;
QY	OC	Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
Db	OC	NCEI_TaxID=8923;
QY	RN	[1]
Db	RP	SEQUENCE FROM N.A.
QY	RA	Kim K.-S., Rothschild M.F.;
Db	RT	"Pig" Għrelin;"
QY	RL	Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases.
Db	DR	EMBL; AY373019; AAR24571.1; -.
QY	DR	InterPro; IPR005441; Preproghrelin.
Db	DR	Pfam; PP04643; Motilin_għrelin; 1.
QY	DR	PRINTS; PR01624; GHRELIŃ.
Db	FT	NON TER 74 74
QY	SQ	SEQUENCE
RESULT 13	Query Match	24.3%; Score 150.5; DB 2; Length 74;
0863L0	Best Local Similarity	71.1%; Pred. No. 8.3e-08;
0863L0	Matches	32; Conservative 4; Mismatches 8; Indels 1; Gaps 1;
AC	ID	067BB5
QY	AC	067BB5
Db	AC	067BB5;
QY	DT	01-OCT-2003 (TREMBLrel. 24, Created)
Db	DT	01-JUN-2003 (TREMBLrel. 24, Last sequence update)
QY	DT	01-OCT-2003 (TREMBLrel. 25, Last annotation update)
Db	DE	Preproghrelin precursor.
QY	OS	Ovis aries (Sheep).
Db	OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Caprinae; Ovis.
QY	OC	Caprinae; Ovis.
Db	OX	NCBI_TaxID=9940;
QY	RN	[1]
Db	RP	SEQUENCE FROM N.A.
QY	RC	TISSUE-Stomach;
Db	RA	Kojima, M.; Hosoda, H.; Kaiya, H.; Matsuo, H.; Kangawa, K.; Submitted (APR-2001) to the EMBL/GenBank/DDBJ databases.
QY	RA	Submitted (APR-2001) to the EMBL/GenBank/DDBJ databases.
Db	RL	EMBL; AB060599; BACT7528.1; -.
QY	DR	GO; GO:0005576; C: extracellular; IEA.
Db	DR	GO; GO:0016608; F-growth hormone-releasing hormone activity; IEA.
QY	DR	GO; GO-0050791; P-regulation of physiological process; IEA.
Db	DR	InterPro; IPR011070; Alpha-beta subunit.
QY	DR	InterPro; IPR06737; motilin assoc.
Db	DR	InterPro; IPR05738; motilin_għrelin.
QY	DR	InterPro; IPR05541; Preproghrelin.
Db	DR	Pfam; PP04643; Motilin assoc; 1.
QY	DR	PRINTS; PR01624; GHRELIŃ.
Db	DR	ProDom; PD312162; Preproghrelin; 1.
QY	RN	[1]
Db	RP	SEQUENCE FROM N.A. (ISOFORMS 1 AND 2).
QY	RA	Kojima, M.; Submitted (DEC-1999) to the EMBL/GenBank/DDBJ databases.
Db	RN	[2]
QY	RC	SEQUENCE FROM N.A. (ISOFORMS 1 AND 2).
QY	RC	TISSUE-Stomach;

	RL	Submitted (Nov-2003) to the EMBL/GenBank/DBJ databases.
	DR	EMBL; AY455985; AAS67351.1; -.
	DR	GO; GO:005576; Cextracellular; IEA.
	DR	GO; GO:0016608; P:rowth hormone-releasing hormone activity; IEA.
	DR	GO; GO:005791; Regulation of physiological process; IEA.
	DR	InterPro; IPR005411; Preproghrelin.
	DR	Pfam; PF04644; Motifin_shrelin; 1.
	DR	PRINTS; PRO1624; GHRELIN.
FT	NON_TER	1
FT	SEQUENCE	54
	AA:	54
	MW:	6095
	CRC64:	C77F81F0B0B05B98
Qy	VCSLLIGLMLDAMAGSSFLSPERHQTVORPPIK	23 7%; Score 147; DB 2; Length 54;
Db	: : : : : : : : : 1 ICSLLILSLMLWMDLMAGSSFLSPERHQKLQRKEPK	Best Local Similarity 75.0%; Pred. No. 1.3e-07; 4; Mismatches 5; Indels 0; Gaps 0;